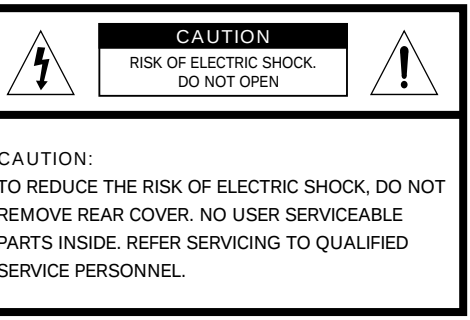
SAMSUNG

THREE-CD CHANGER
MINI-COMPACT SYSTEM
MAX-DN54

Instruction Manual

Safety Warnings

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1


CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN
CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

GB

Contents

Thank you for buying this SAMSUNG mini-compact system.

Please take time to read these instructions. They will allow you to operate your system with ease and take full advantage of its features.

♦ SAFETY WARNINGS 2

♦ INSTALLING YOUR MINI-COMPACT SYSTEM

- Front Panel View 4
- Remote Control 5
- Rear Panel View 6
- Where to Install Your Mini-Compact System 7
- Inserting Remote Control Batteries 7
- Connecting your System to the Power Supply 7
- Connecting the Loudspeakers 8
- Connecting the Center Speaker/ Surround Speaker 8
- Connection of the TV monitor (optional) and VCR (optional) 9
- Connection of the MD recorder (optional) 9
- Connecting the AM (MW)/LW Aerial 10
- Connecting the FM Aerial 10
- Connecting the SW Aerial(option) 10
- Viewing the Various Functions on Your System 11
- Setting the Clock 11

♦ DVD/VCD/CD-PLAYER

- Loading and Changing Compact Discs 12
- Playing a Disc 12
- Video Output Selection 12
- Selecting a Disc in the CD changer 13
- Searching & Skipping through a Chapter or Track 14
- Using the Display Function 14
- Repeat Play 15
- Program Playback in a specific Order 16
- Using the Disc View Function 17
- Selecting Audio 18
- Selecting the Subtitle Language 19
- Selecting the Desired Screen Angle 20
- Using the zoom 21
- Using the Bookmark Function 21
- Using the setup Menu 22
- Setting up the language features 23
- Setting up the parental level 25
- Setting up audio options 26
- Setting up display options 28
- Dolby Surround 29

♦ TUNER

- Searching for and Storing the Radio Stations 31
- Selecting a Stored Station 32
- Improving Radio Reception 32

♦ TAPE DECK

- Listening to a Cassette 33
- CD Synchro Record Feature 33
- Recording a Compact Disc 34
- Recording a Radio Program 34
- Copying a Cassette (Dubbing) 35
- Selecting the Cassette Playback Mode (Deck 2 Only) 35

♦ OTHER FUNCTIONS

- Timer Function 36
- For the Protection of being Recorded 36
- Mute Function 37
- Selecting an Equalizer Preset 37
- Power Sound Function 37
- Cancelling the Timer 37
- Setting the System to Switch off Automatically 38
- Super Bass Sound 38
- Connecting Headphones 38
- Microphone Function(option) 38
- Connecting to an External Source 39

♦ RECOMMENDATIONS FOR USE

- Safety Precautions 39
- Cleaning Your Mini-Compact System 40
- Precautions When Using Compact Discs 40
- Precautions When Using Audio Cassettes 40
- Disc type and characteristics 41
- Before Contacting the After-Sales Service 42
- Technical Specifications 43

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Symbols

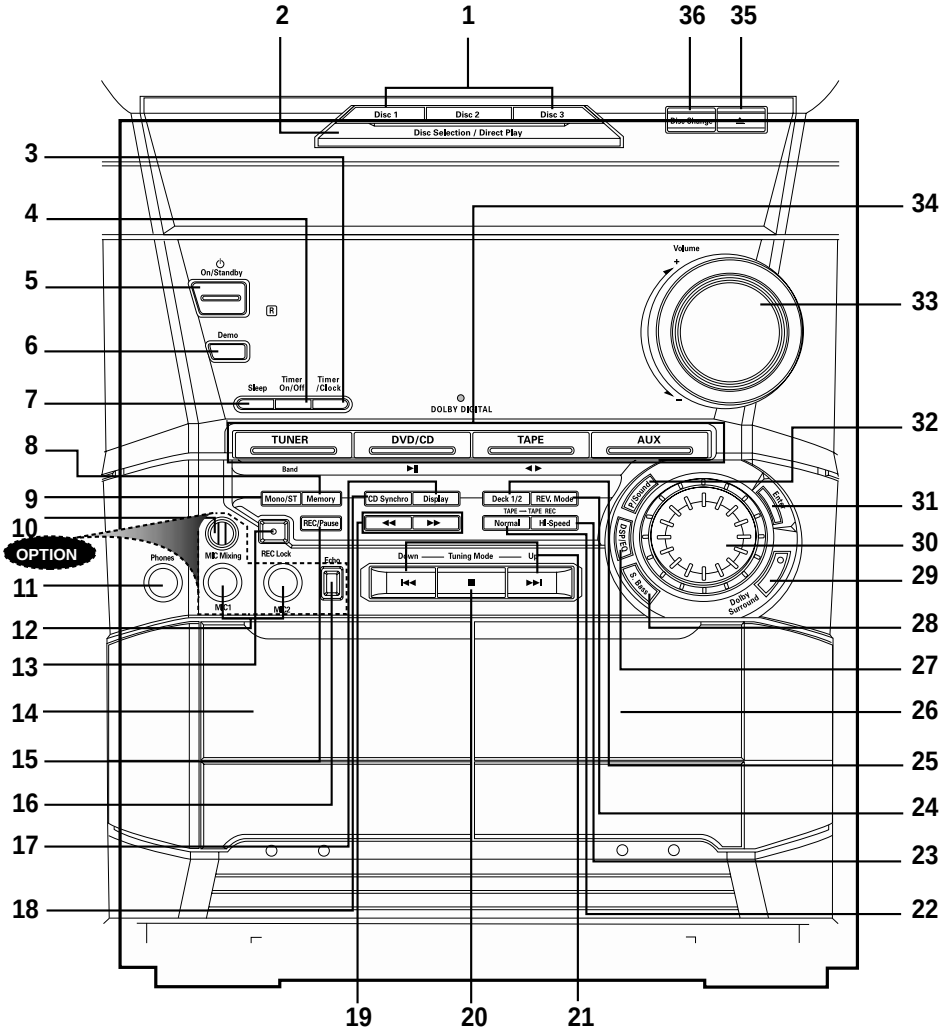
Press

Push

Important

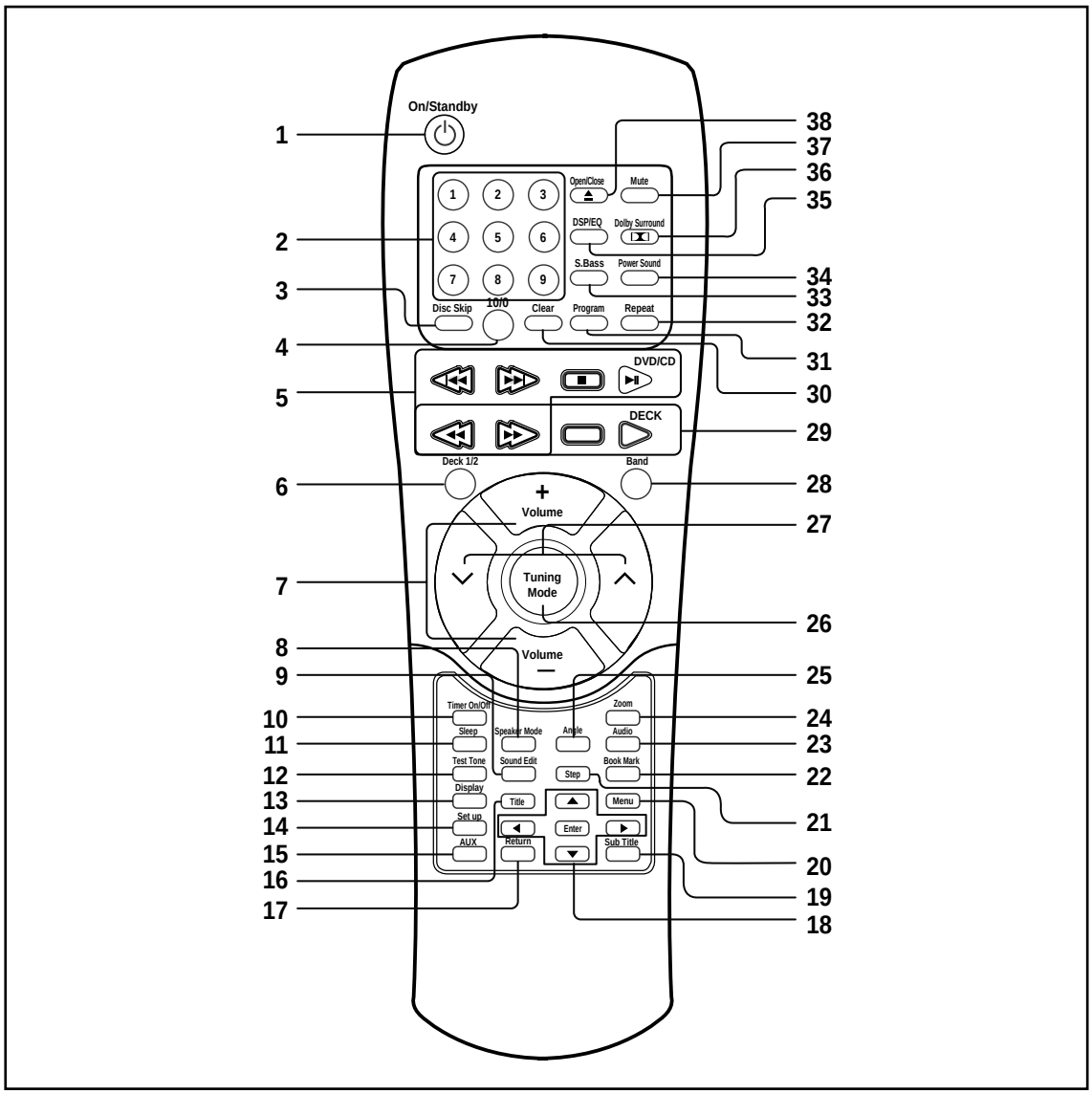
Note

Front Panel View



1. Disc Selection buttons
2. Compact Disc Compartment
3. Timer/Clock
4. Timer On/Off
5. On/Standby
6. Demo
7. AI Off/Sleep
8. Memory
9. Mono/ST
10. Mic Mixing (option)
11. Headphone Jack Connector
12. MIC 1, 2 (option)
13. Rec Lock
14. Cassette Deck 1
15. Rec/Pause
16. Echo (option)
17. Display
18. CD Synchro
19. Fast Forward/Rewind
20. Tuning Mode or Stop button
21. CD Track or radio station search (Down/Up)
22. TAPE Normal Recording
23. TAPE Hi-Speed Recording
24. Rev mode
25. Deck 1/2
26. Cassette Deck 2
27. EQ
28. S.Bass
29. Power Sound/Surround
30. Multi Jog
31. Return
32. Menu On/Off
33. Volume
34. Function Selection buttons
35. Open/Close
36. Disc Change

Remote Control



1. On/Standby
2. Numeric Buttons
3. Disc Number Skip
4. Two-Digit Track, Selection/+10 (Tuner)
5. DVD/CD Function Selection Buttons
6. Deck 1/2
7. Volume
8. Speaker Mode
9. Sound Edit
10. Timer On/Off
11. Sleep
12. Test Tone
13. DVD/CD Display
14. Setup
15. AUX
16. Title
17. Return
18. Enter (Up/Down, Left/Right)
19. Sub Title
20. Menu
21. Step
22. Book Mark
23. Audio
24. Zoom
25. Angle
26. Tuning Mode
27. Radio Station Search
28. Radio selection
29. Cassette Function Selection buttons
30. Clear
31. Program
32. Repeat
33. S. Bass
34. Power Sound
35. DSP/EQ
36. Dolby Surround
37. Sound Cut-Off Selection
38. Compact Disc Compartment Open/Close

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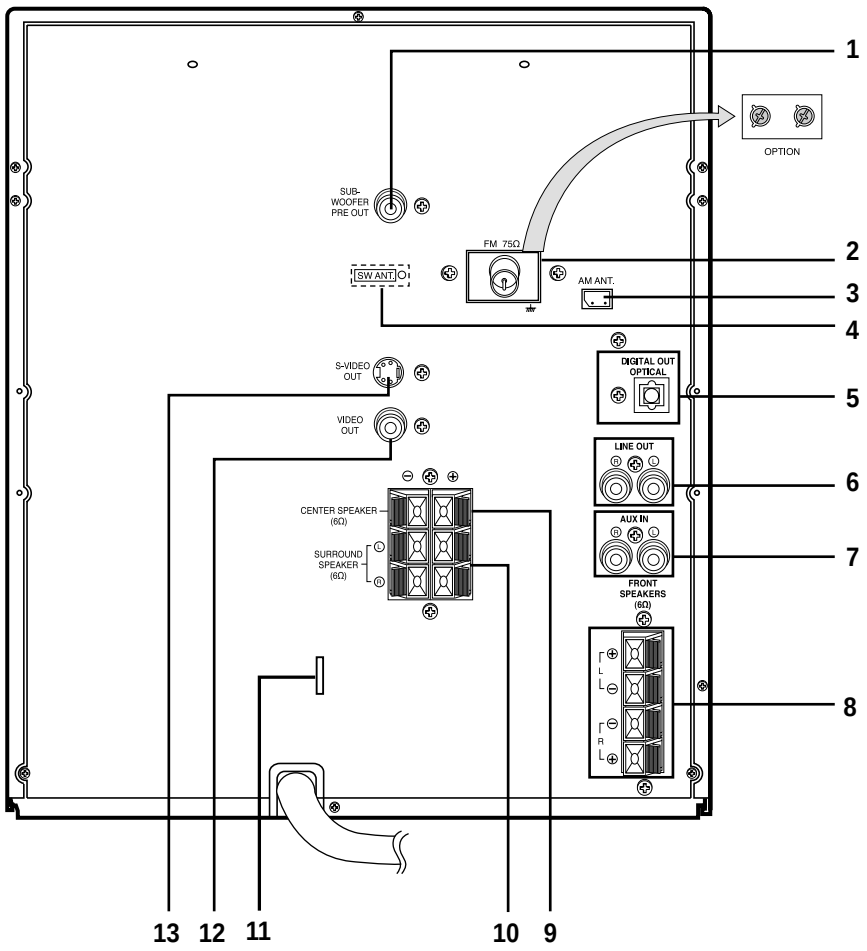
Rear Panel View



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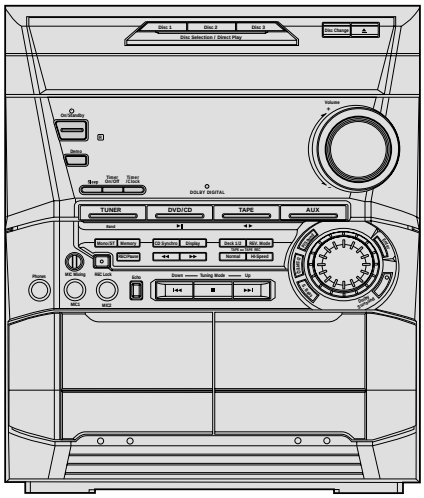
1. SUPER WOOFER PRE OUT
2. FM AERIAL CONNECTOR TERMINAL
3. AM AERIAL CONNECTOR TERMINAL
4. SW AERIAL CONNECTOR TERMINAL(OPTION)
5. DVD/CD DIGITAL OUT JACK
6. LINE OUT
7. AUX INPUT
8. LOUDSPEAKER CONNECTOR TERMINALS
9. CENTER SPEAKER
10. SURROUND SPEAKERS
11. VOLTAGE SELECTOR (OPTION)
12. VIDEO OUT
13. S-VIDEO OUT

Where to Install Your Mini-Compact System

To take full advantage of your new mini-compact system, follow these installation instructions before connecting the unit.

- Install the system on a flat, stable surface.
- Never place this unit on carpeting.
- Never place this unit in an outdoor area.
- Maintain an open space of approximately 4 inches (10 cm) on the sides and rear of the system, for ventilation purposes.
- Make sure that you have enough room to open the compact disc compartment easily.
- Place the loudspeakers at a reasonable distance on either side of the system to ensure good stereo sound.
- Direct the loudspeakers towards the listening area.
- For optimum performance, make sure that both speakers are placed at an equal distance above the floor.



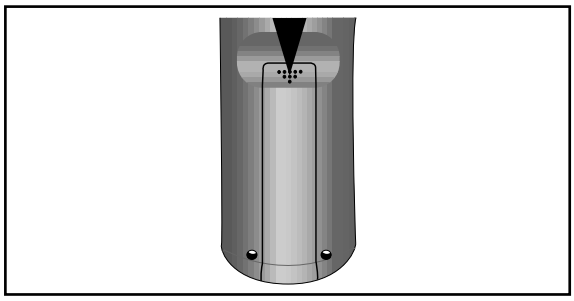
Inserting Remote Control Batteries

Insert or replace remote control batteries when you:

- Purchase the mini-compact system
- Find that the remote control is no longer operating correctly

☛ When replacing the batteries, use a new set of batteries and never mix alkaline and manganese batteries.

1. Place your thumb on the position marked ▼ on the battery compartment cover (rear of the remote control) and push the cover in the direction of the arrow.
2. Insert two AAA, LR03 or equivalent batteries, taking care to respect the polarities:
   - + on the battery against + in the battery compartment.
   - – on the battery against – in the battery compartment.
3. Replace the cover by sliding it back until it clicks into position.

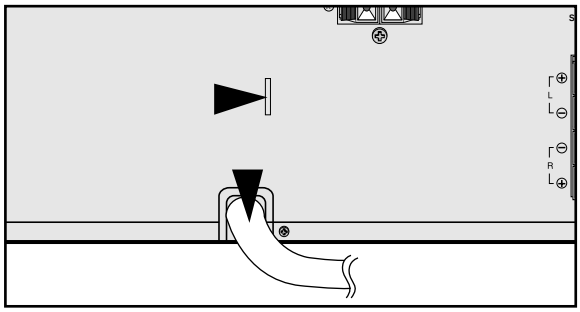


Connecting your System to the Power Supply

The main lead must be plugged into an appropriate socket.

☛ Before plugging your system into a main socket, you must check the voltage setting (OPTIONAL). If the voltage of the socket does not correspond to the setting on the rear of the unit, you may seriously damage your system.

1. Check the position of the voltage selector on the rear of the system (OPTIONAL).
2. Plug the main lead (marked **AC Cord** on the rear of the system) into an appropriate socket.
3. Press the **On/Standby** button to switch your mini-compact system on.



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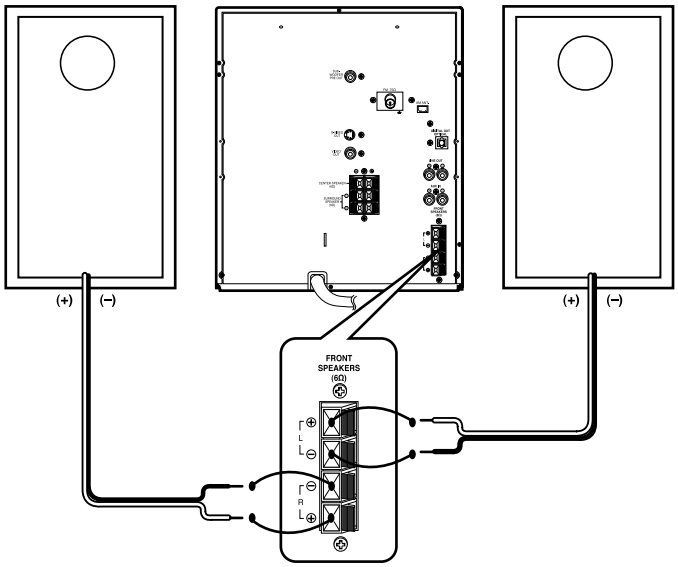
Connecting the Loudspeakers



The loudspeaker connector terminals are located on the rear of the system.

There are four terminals on the system:

- Two for the left speaker (marked L)
- Two for the right speaker (marked R)

To achieve the correct sound quality, connect the:

- Red wire to the + terminals
- Black wire to the – terminals

1 To connect a wire to a terminal, push the tab as far as it will go:
- To the right on the system

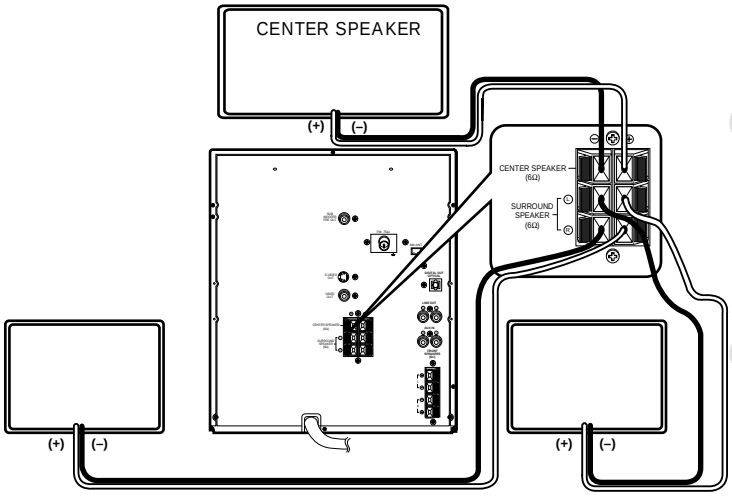
2 Insert the wire, up to the plastic sheathing, in the hole.

3 Push the tab back:
- To the left on the system, until it clicks into place
- To the top on the loudspeaker

Result: The wire is pinched and held firmly in place.

4 Repeat the operation for each wire.

Connecting the Center Speaker/ Surround Speaker



SURROUND SPEAKER (right)

SURROUND SPEAKER (left)

Connect the CENTER SPEAKER.
- Connect the center speaker cord to the CENTER SPEAKER terminal.

Connect the SURROUND SPEAKERS.
- There is no difference between the surround speakers. Both speakers can be connected as R (right) or L (left).
  Connect the surround speaker cords to the SURROUND SPEAKERS terminals.

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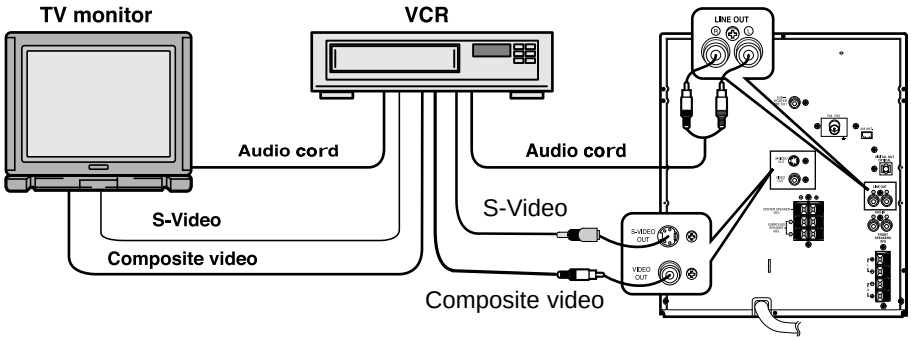
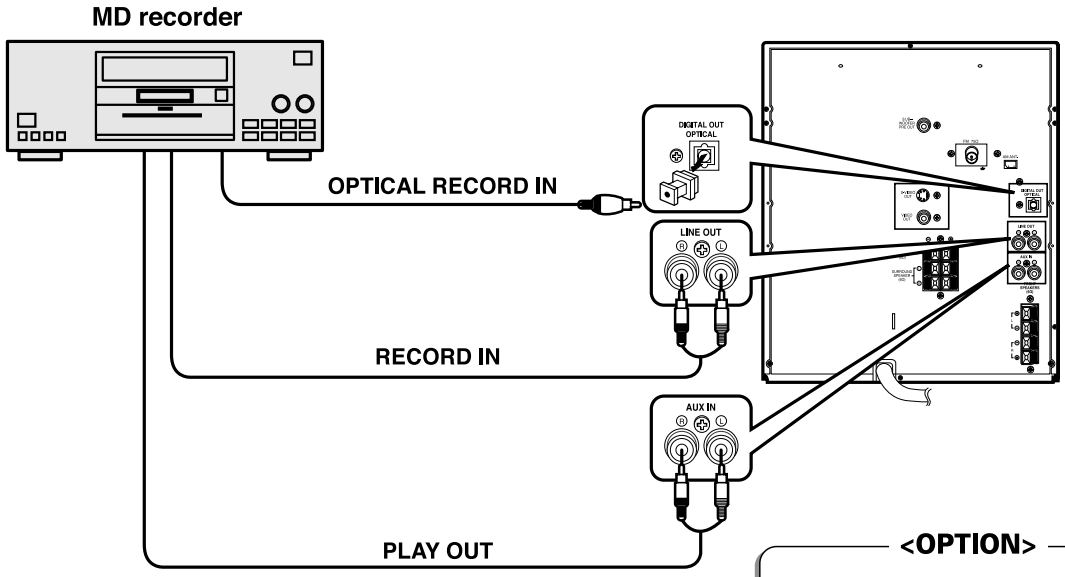
Connection of the TV monitor (optional) and VCR (optional)

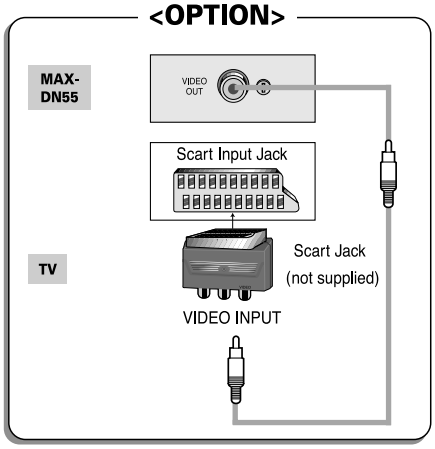
The following show examples of connections commonly used to connect the MAX-DN55 player with a External Source. (Example : TV, VCR, DAT CD-RW, etc)



➢ When S-VIDEO is connected, S-VIDEO has priority.

Connection of the MD recorder (optional)





➢ Refer to page 41 to give a full detail of the peripheral connection methods

DVD/CD Digital Out Jack

This unit can output DVD/CD digital sound signals through this jack. Use an optical cable to connect digital audio equipment. (DAT deck, MD recorder, etc.).
Remove the dust cap (1) from the DVD/CD DIGITAL OUT jack. Then, connect an optical cable plug to the DVD/CD DIGITAL OUT jack.

When the DVD/CD DIGITAL OUT jack is not being used
Attach the supplied dust cap.

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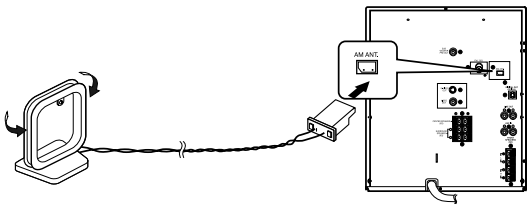
Connecting the AM (MW)/LW Aerial

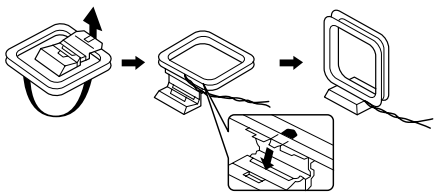
The AM aerial (for long and medium waves) can be:

- Placed on a stable surface
- Fixed to the wall (you must first remove the base)

The **AM** aerial connector terminals are located on the rear of the system and are marked **AM** .

☛ To avoid noise interference, check that the loudspeaker wires do not run close to the aerial wires.
Always keep them at least 2 inches (5 cm) away.



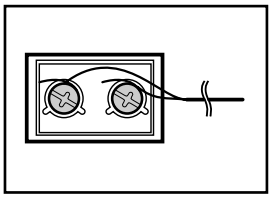


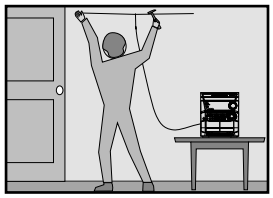
Connecting the FM Aerial

There are two types of aerial, (depending on option chosen).

1 How to connect a SCREW TYPE aerial.

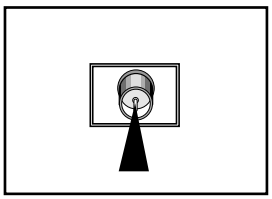
- The **FM** aerial connector terminals are located on the rear of the system and marked **FM** (75Ω).
- Spread the T.form **FM** aerial out and attach the ends to a wall, in the position providing the best reception.

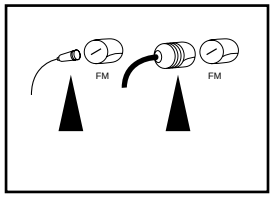




2 How to connect a COAXIAL TYPE aerial.

- Connect a 75Ω antenna to the **FM** antenna terminal.
- Plug the connector on the **FM** aerial supplied into the coaxial socket (75Ω) marked **FM** on the rear of the system.
- Follow the instructions given on Page 31 to tune into a radio station, and determine the best position for the aerial.
- If reception is poor, you may need to install an outdoor aerial. To do so, connect an outdoor **FM** aerial to the **FM** socket on the rear of the system using a 75Ω coaxial cable (not supplied).

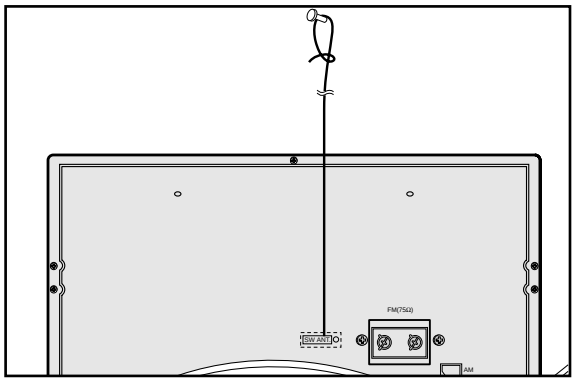




Connecting the SW Aerial (option)

How to connect a WIRE TYPE aerial.

- Spread the **SW** aerial out and attach the ends to a wall, in the position providing the best reception.
- If reception is poor (e.g. distance from transmitter too great, walls blocking the radio waves, etc.), install an outdoor aerial.



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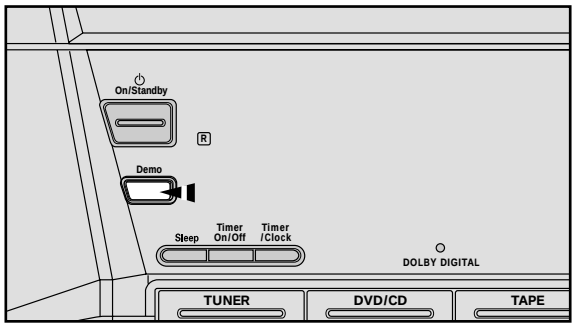
Viewing the Various Functions on Your System

You can view the various functions available on your system.

1 Press the **Demo** button.
Result: The various functions available are listed in turn on the display.

➢ All these functions are described in detail in this booklet. For instructions on how to use them, refer to the appropriate sections.

2 To cancel this function, press **Demo** again.



Setting the Clock

Your system is equipped with a clock which allows you to turn your system on and off automatically. You should set the clock:

- When you first purchase the mini-compact system
- After a power failure
- After unplugging the unit

☛
- Remember to reset the clock when the time changes from regular to daylight savings and vice verse.
- For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

1 Switch the system on by pressing **On/Standby**.

2 Press **Timer/Clock** twice.
Result: **CLOCK** is displayed.

3 Press **Enter**.
Result: The hour flashes.

4

To...	Turn the Multi Jog knob to the...
Increase the hours	Right
Decrease the hours	Left

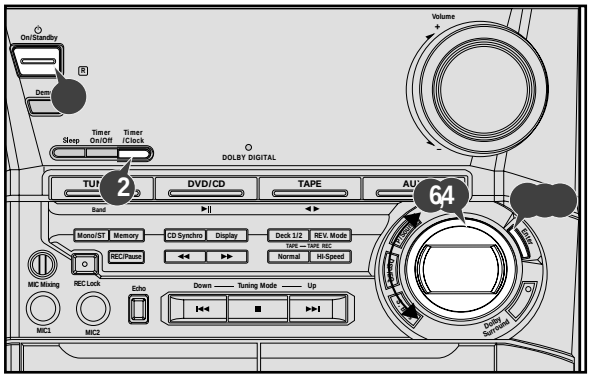
5 When the correct hour is displayed, press **Enter**.
Result: The minutes flash.

6

To...	Turn the Multi Jog knob to the...
Increase the minutes	Right
Decrease the minutes	Left

7 When the correct time is displayed, press **Enter**.
Result: The clock starts and is displayed, even when the system is in standby mode.

➢ You can display the time, even when you are using another function, by pressing Timer/Clock once.



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Loading and Changing Compact Discs

The CD disc changer can contain up to three 12 cm or 8 cm compact discs without using an adapter.

☛ Never force the compact disc carrousel when opening and closing the compartment.

Never press down or place objects on the carrousel.

➢ Always treat your compact discs with care; refer, if necessary, to the section entitled "**Precautions When Using Compact Discs**" on page 40.

1 Switch the system on by pressing **On/Standby**.

2 Press the **Open/Close**(▲) button on the front panel.
Result: The compartment opens.

3 Place one or two discs in the front slots of the carrousel, with the label on the discs facing upwards.
☛ Check that the compact disc has been correctly inserted in the holder before closing the compartment.

4 If you wish to load a third compact disc, press the **Disc Change** button on the front panel (or **Disc Skip** on the remote control).
Result: The carrousel rotates by 120°.

5 Close the compartment by pressing the **Open/Close**(▲) button again.
➢ If you wish to start playing a disc directly, you can also proceed as follows.

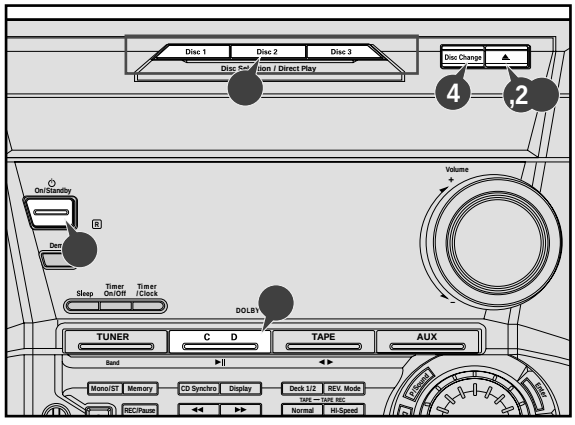
To play...	Press...
Disc 1	DVD/CD (▶II) or DISC 1
Disc 2	DISC 2
Disc 3	DISC 3

Result: The compartment closes automatically and the disc selected starts playing.

6 To change or unload the compact disc changer, repeat Steps **2** to **5**.

☛ Keep the compartment closed whenever you are not using it, to prevent dust from entering.

➢ You can load or unload compact discs when the radio, tape or auxiliary source function is selected.



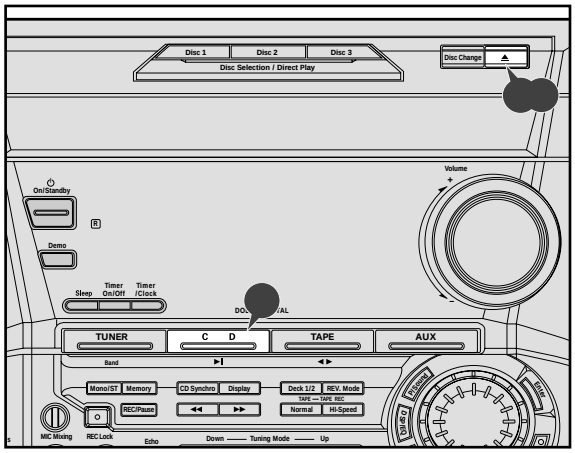
Playing a Disc

Playback

1 Press the **Open/Close**(▲) button.

2 Place a disc gently into the tray with the disc's label facing up.

3 Press the **Play/Pause** button or **Open/Close**(▲) button to close the disc tray.

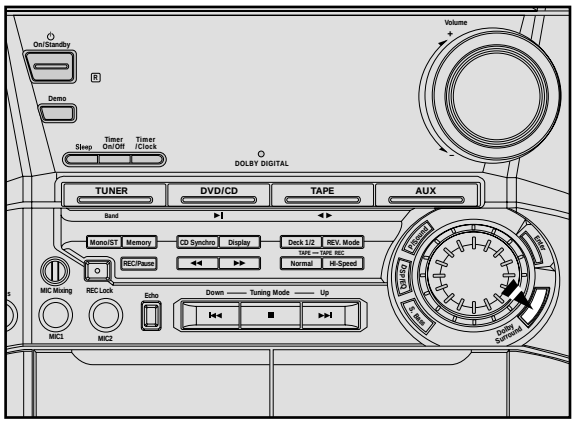


Video Output Selection

♦ Press the **Dolby Surround** button in POWER OFF, then it is converted to " NTSC → PAL → SECAM " and select the TYPE you want.

Example : Select PAL, if TV is for PAL.

➢ When disk is set to NTSC in PAL, it doesn't operate.



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Playing a Disc (Cont'd)

Several options are available during DVD playback.

1 Stopping Playback

- Press the **Stop** button in playback.

2 Removing Disc

- Press the **Open/Close** (⏏)button

3 Pausing Playback

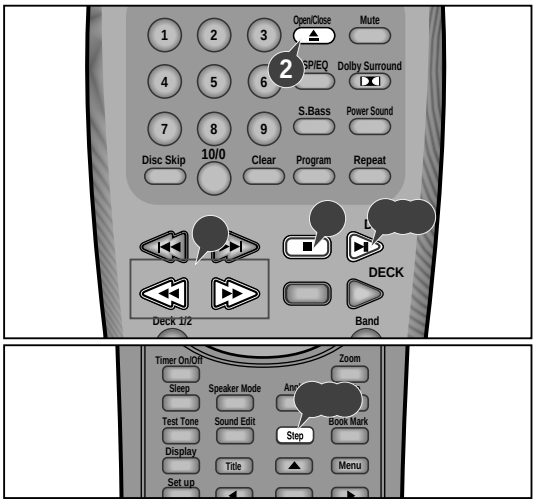
- Press the **Play/Pause** or **Step** button on the remote during playback.
  – Screen stops, no sound.
  – To resume again, press **Play/Pause** button once again.

4 Step Motion Playback (Except CD)

- Press the **Step** button on the remote during playback.
  – Each time the button is pressed, a new frame will appear.
  – No sound is heard during STEP mode.
  – Press **Play/Pause** to resume normal playback.
  (You can only perform step motion playback in the forward direction.)

5 Slow Motion Playback (Except CD)

- Press the **FWD** (▶▶) or **REV** SEARCH (◀◀) button on the remote during PAUSE or STEP mode.
  – By pressing or shuttling, you can select slow motion playback for 1/2, 1/4 or 1/8 of normal speed.
  – No sound is heard during slow mode.
  – Press **Play/Pause** to resume normal playback.
  – When playing a VCD, the reverse slow motion playback will not work.



RESUME function

When you stop disc play, the player remembers where you stopped, so when you press **Play** again, it will pick up where you left off (unless the disc is removed, the **Stop** button is pressed twice or the player is unplugged.).

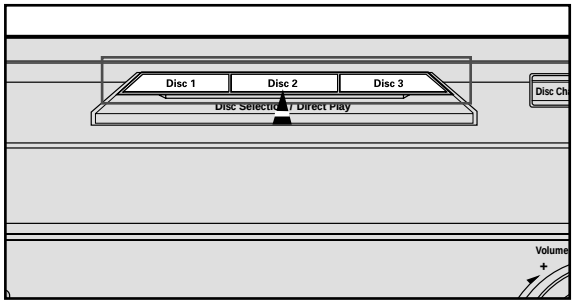
- If the player is left for 5 minutes in pause mode, it will stop.
- If the player is left in the stop mode for more than one minute without any user interaction, a screensaver will be activated, and the TV screen will fade in and fade out repeatedly. Press **Play** button to resume normal play.

Selecting a Disc in the CD changer

The CD function is automatically selected when DISC SKIP is pushed.

To select a specific disc, press the corresponding Disc (1, 2, 3) button on the front panel or Disc Skip on the remote control, until the required disc indicator flashes.

- If you use the Disc (1, 2, 3) function when listening to the radio or to a tape, the system switches automatically to the DVD/CD mode.
- If the disc selected is not loaded, the next disc is played automatically.



When playing DVD, if an Audio that recorded in a disc is AC-3 (Bitstream)

- Making a sound with only Dolby Digital, the DOLBY DIGITAL LED at the bottom of the display panel turns on red light.
- DOLBY SURROUND, DSP/EQ, POWER SOUND and S.BASS functions can not be operated.

GB

S e a r c h i n g &

During playback, you can search quickly through a chapter or track or use the skip function to jump to the next selection.

Searching through a Chapter or Track

1 Press the **REV** (◀◀) or **FWD** SEARCH (▶▶) button on the remote during PLAY mode.

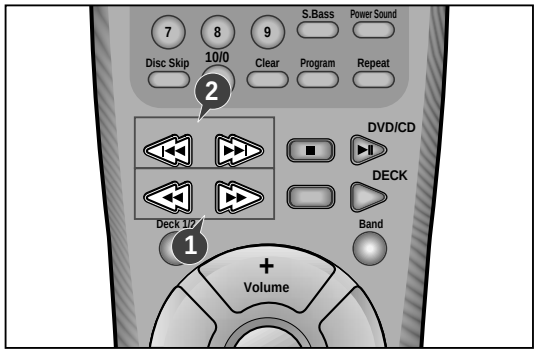
- Press the **REV** (◀◀) or **FWD** SEARCH (▶▶) button on the remote and press again to search at a faster speed(2X/8X/16X/32X/normal speed, in order)on DVD.
- Press the **REV** (◀◀) or **FWD** SEARCH (▶▶) button on the remote and press again to search at a faster speed(4X/8Xnormal speed in order) on VCD and CD.
- To return to normal speed playback, press the **Play/Pause** button.

Skipping Tracks (It may use the SKIP function in MULTIJOG)

2 Press the NEXT SKIP (▶▶|) or BACK SKIP (|◀◀) button during playback.

- When playing a DVD, if you press the NEXT SKIP (▶▶|) button, it moves to next chapter. If you press the BACK SKIP (|◀◀) button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter.
- When playing a VCD 2.0 in MENU OFF mode, a VCD 1.1 or a CD, if you press NEXT SKIP (▶▶|) button, it moves to next track. If you press BACK SKIP (|◀◀) button, it moves to the the beginning of the track. One more press makes it move to the beginning of the previous track.
- If a track exceeds 15 minutes when playing a VCD and you press NEXT SKIP (▶▶|) button, it moves forward 5 minutes. If you press BACK SKIP (|◀◀) button, it moves backward 5 minutes.
- When playing a VCD 2.0 in the MENU MODE or Track View function, if you press NEXT SKIP (▶▶|) button, it move to the next MENU or the next Track View display. If you press BACK SKIP (|◀◀) button, it moves to the previous MENU or the previous Track View display. (Refer to page 16.)

➢
- While in search (8X/16X/32X)on DVD or high-speed playback on VCD, no sound will be heard.
- Though 2X SCAN AUDIO in ON in SETUP MENU, no sound will be heard on discs which are recorded with LPCM or DTS.
- Depending on the disc, audio may or may not be heard when a disc is in 2X playback mode.



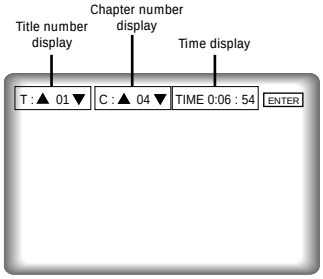
Using the Display Function

If you want to display the title, chapter, time, audio and subtitle information on a DVD, press the DISPLAY button. If you want to display the track and time information on a VCD or CD, press the Display button.

When Playing a DVD

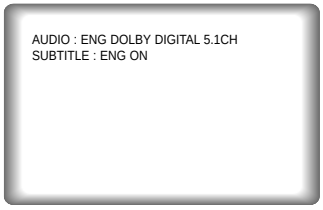
1 During playback, press the **Display** button on the remote.

– Current title, chapter number and elapsed time will be displayed.



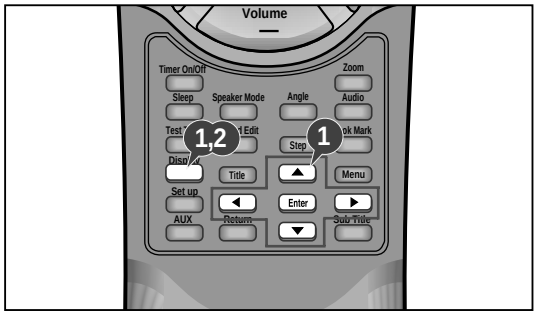
- Use the LEFT/RIGHT (◀ / ▶) button to select a title or a chapter number.
  Use the UP/DOWN (▲ / ▼) button or Number buttons to enter a different title or chapter number, then press the **Enter** button.
- To enter the time from which you want to start, use the LEFT/RIGHT (◀ / ▶) button to select, then use the Number buttons to enter the time.
  Then press the **Enter** button.

2 Press the **Display** button on the remote twice.



– Current audio and subtitle information will appear.
– To make the screen disappear, press the **Display** button again.

➢
- What is a Chapter?
  Each Title on a DVD can be divided into chapters (similar to tracks on an audio CD).
- What is a Title?
  A DVD may contain several different titles. : for example, if a disc contains four different movies, each might be considered a title.

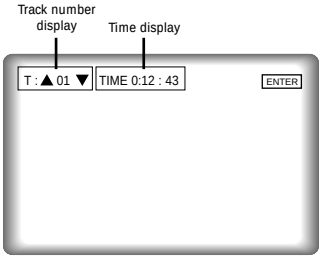


Using the Display Function (Cont'd)

When Playing CD/VCD

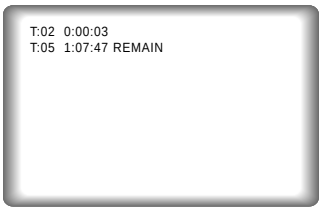
1 During playback, press the **Display** button on the remote.

- Current track number and elapsed time will be displayed.



- Use the LEFT/RIGHT (◀ / ▶) button to select a track. Use the UP/DOWN (▲ / ▼) button or Number buttons to enter a different track number, then press the **Enter** button.
- To enter the time from which you want to start, use the LEFT/RIGHT (◀ / ▶) button to select, then use the Number buttons to enter the time.
  Then press the **Enter** button.

2 Press the **Display** button on the remote twice.



- Elapsed time and remain time will appear.
- To make the screen disappear, press the **Display** button again.

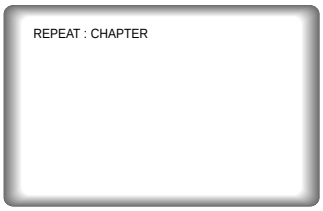
Repeat Play

Repeat play allows you to repeat a track, title, or the entire disc.

When playing a DVD

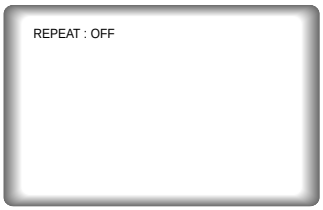
1 Press the **Repeat** button once to display the current status.

2 Press the **Repeat** button twice to repeat the chapter currently playing.

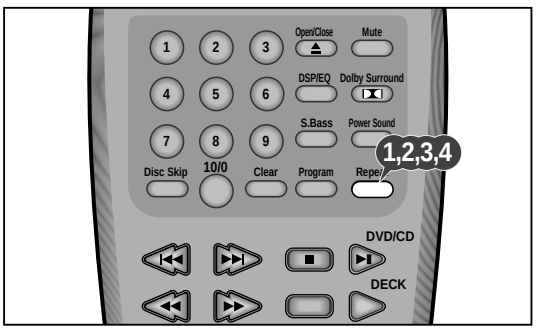


3 Press the **Repeat** button a third time to repeat the title currently playing.

4 Press the **Repeat** button again to turn off the repeat feature.



- DVD repeats playback by chapter or title, CD and VCD repeat playback by disc or track.
- Depending on the disc, the Repeat function may not work.
- When in VCD 2.0 mode (MENU ON mode), this function does not work.



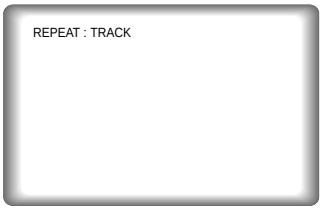
GB

Repeat Play (Cont'd)

When playing a CD/VCD

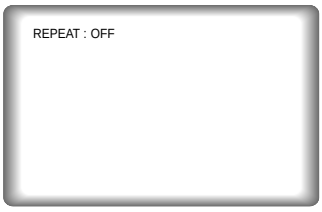
1 Press the **Repeat** button once to display the current status.

2 Press the **Repeat** button twice to repeat the current track.



3 Press the **Repeat** button a third time to repeat all tracks.

4 Press the **Repeat** button again to turn off the repeat feature.



Program Playback in a specific Order

Program playback lets you set up a specific order for playback of titles, chapters or tracks on a disc only. This function works in stop mode only.
If the microphone is connected in the middle of programming, it may not operate normally.

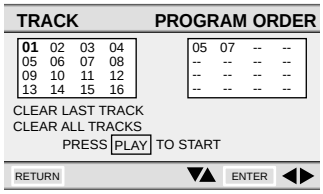
Program DVD

Example: To program chapters 5 and 7 in order.

1 In stop mode, press the **Program** button.

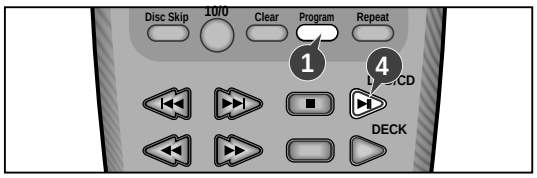
2 Use the LEFT/RIGHT (◀/▶) button to select CHAPTER. Press the **Enter** button.

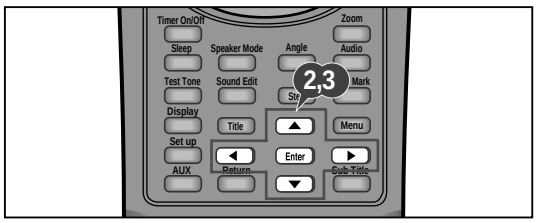
3 Use the LEFT/RIGHT (◀/▶) or UP/DOWN (▲/▼) button to select 05 and press **Enter**. Then select 07 and press **Enter** button.



4 Press the **Play/Pause** button. The disc will be played back in programmed order.

➢ Press **Clear** button to resume normal Playback.





When you make a wrong selection during programming

- Use the UP/DOWN (▲/▼) button to select CLEAR LAST TRACK (or CHAPTER, or TITLE).
- Press the **Enter** button to delete the last track (or chapter, or title) in the program order.

When you want to delete the entire program

- Use the UP/DOWN (▲/▼) button to select CLEAR ALL TRACKS (or CHAPTERS, or TITLES).
- Press the **Enter** button to delete all tracks, chapters or titles in the program order. All programmed tracks, chapters or titles are also deleted when the disc is removed or the DVD player is turned off.

➢ Depending on the disc, the Program Playback function may not work.

GB

Program Playback in a specific Order (Cont'd)

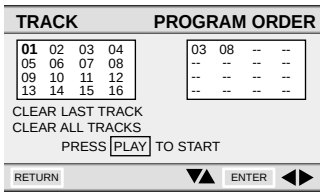
Program VCD or CD

Example: To program tracks 3 and 8 in order.

1 In stop mode, press the **Program** button.

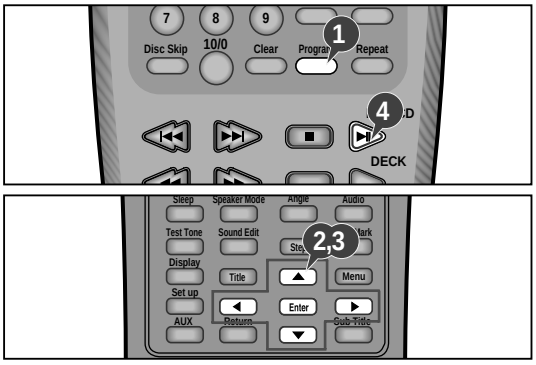
2 Use the LEFT/RIGHT (◀/▶) button to select **Program**.
Press the **Enter** button.

3 Use the LEFT/RIGHT (◀/▶) or UP/DOWN (▲/▼) button to select 03 and press **Enter**.
Then select 08 and press the **Enter** button.



4 Press the **Play/Pause** button. The disc will be played back in programmed order.

➢ Press **Clear** button to resume normal Playback.



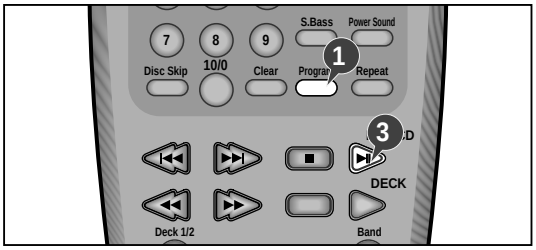
To start RANDOM playback.

1 Press the **Program** button while in stop mode.

2 Use the LEFT/RIGHT (◀/▶) button to select RANDOM and press the **Enter** button.

3 Press **Play/Pause** button.
– The disc will be played back in random order.

➢ ♦ The function of RANDOM is operated in only VCD/CD.
♦ Press **Clear** button to resume normal Playback.



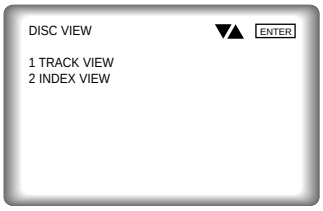
Using the Disc View Function

The desired music or video display can be accessed directly without using the menu function.

Track View (VCD)

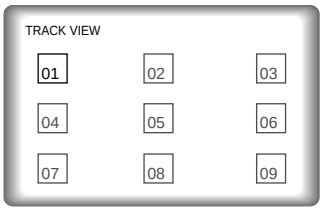
Displays the beginning view of each track and the track number

1 Press the **Title** button in playback
Press the UP/DOWN (▲/▼) button to select TRACK VIEW.



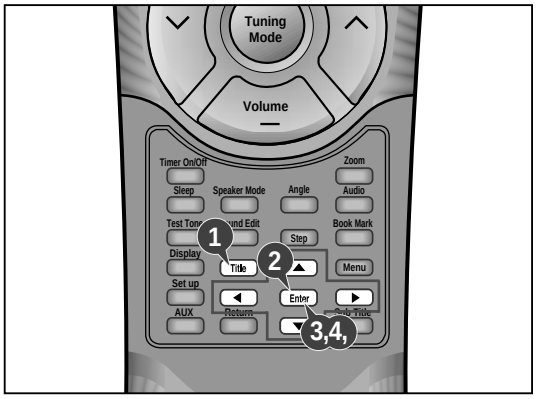
2 Press the **Enter** button.

3 Select the desired view by pressing the UP/DOWN (▲/▼) or LEFT/RIGHT (◀/▶) buttons.



(An example of a Track View)

4 Press the **Enter** button.



GB

Using the Disc View Function (Cont'd)

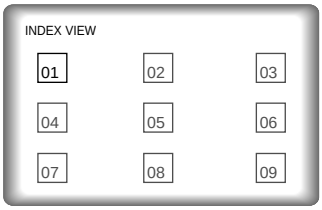
Index View (VCD)

Displays the beginning view of each track and the track number

1 Press the **Title** button in playback.

2 Press UP/DOWN (▲/▼) button to select INDEX VIEW. Press the **Enter** button.

3 Select the desired view by pressing UP/DOWN (▲/▼) or LEFT/RIGHT (◀/▶) buttons.



4 Press the **Enter** button.

When you press Title button during DVD playback

The disc's TITLE MENU function will come up. A disc must have at least two titles for the TITLE MENU function to work.

When you press Title button during CD playback

The unit enters the INTRO SCAN mode. INTRO SCAN lets you listen to the beginning of each track for about 10 seconds.

➢ ♦ When in VCD 1.1 & 2.0 mode (MENU OFF mode), this function works.

♦ In stop mode on VCD, press the TITLE button and the TRACK VIEW will be displayed directly.

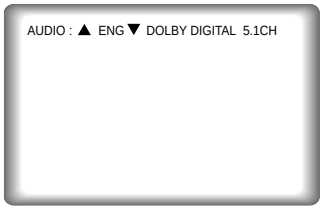
Selecting Audio

You can select a desired language quickly and easily with the Audio button. If a menu is encoded on the disc, you can also select by using the Menu button.

Using the Audio Button

1 Press the **Audio** button.

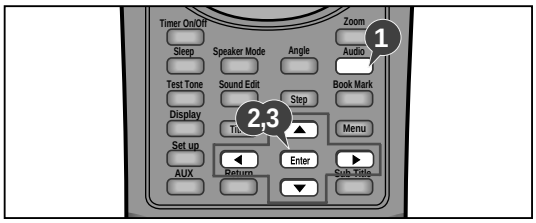
2 Use the UP/DOWN (▲/▼) button to select the desired language on a DVD.



- The audio and subtitle languages are represented by abbreviations.

3 Use the UP/DOWN (▲/▼) button to select STEREO, R CHANNEL or L CHANNEL on a VCD/CD.

➢ Even when the microphone has been connected, press the audio button and the UP/DOWN (▲/▼) button to select a wanted action.



How to have the same audio language come up whenever you play back a DVD.

Refer to "Setting Up the Language Features" on **page 23**.

➢ ♦ This function depends on what languages are encoded on the disc and may not work with all DVDs.

♦ A DVD disc can contain up to 8 audio languages.

GB

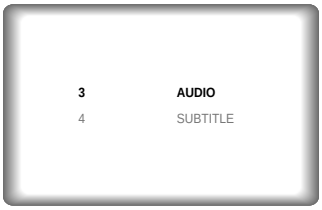
Selecting Audio (Cont'd)

Using the MENU Button

When playing a DVD

1 Press the **Menu** button.

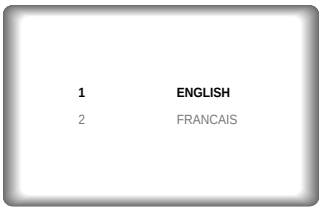
2 Use the UP/DOWN (▲/▼) button to select AUDIO information.



(An example of a disc menu)

3 Press the **Enter** button.

4 Use the UP/DOWN (▲/▼) button to select 'ENGLISH'.

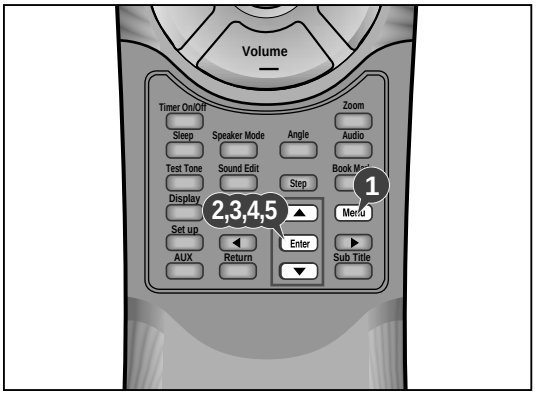


(An example of a disc menu)

5 Press the **Enter** button.

When playing a VCD

In disc version 2.0, the **Menu** button works as a conversion switch between MENU ON and MENU OFF mode.
When playing a VCD 1.1 or CD the **Menu** button will not work.



Selecting the Subtitle Language

When a DVD is recorded with subtitles, you can use the Subtitle feature to view the subtitles on-screen.
If a menu is encoded on the disc, you can also select by using the MENU button.

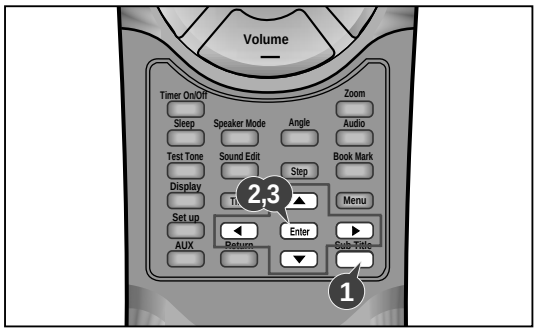
Using the Sub Title button

1 Press the **Sub Title** button.

2 Use the UP/DOWN (▲/▼) button to select the desired subtitle language.

3 Use the LEFT/RIGHT (◀/▶) button to determine whether or not the subtitle will be displayed.

– Initially the subtitling will not appear on screen.
– The audio and subtitle languages are represented by abbreviations.



How to have the same subtitle language come up whenever you play back a DVD.

Refer to "Setting Up the Language Features" on **page 23**.

- This function depends on what languages are encoded on the disc and may not work with all DVDs.
- A DVD disc can contain up to 32 subtitle languages.

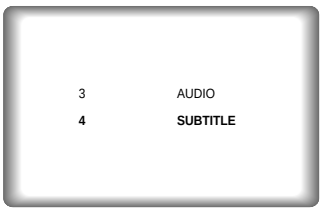
GB

Selecting the Subtitle Language (Cont'd)

Using the Menu button

1 Press the **Menu** button.

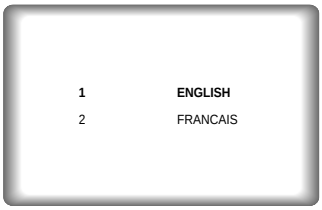
2 Use the UP/DOWN (▲/▼) button to select SUBTITLE information



(An example of a disc menu)

3 Press the **Enter** button.

4 Use the UP/DOWN (▲/▼) button to select the desired language.

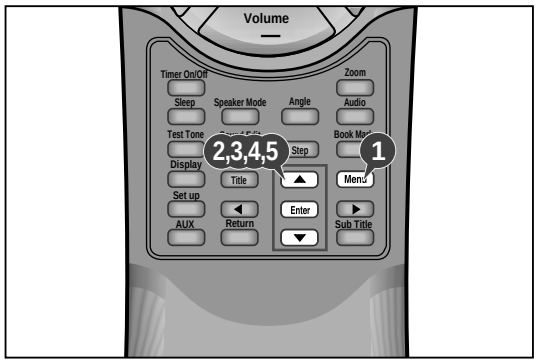


(An example of a disc menu)

5 Press the **Enter** button.

When playing a VCD

In disc version 2.0, the **Menu** button works as a conversion switch between MENU ON and MENU OFF mode.
When playing a VCD 1.1 or CD, the **Menu** button will not work.



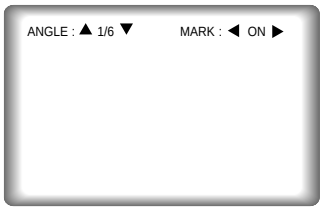
Selecting the Desired Screen Angle

When a DVD contains multiple angles of a particular scene, you can select the Angle function.

Using the Angle button

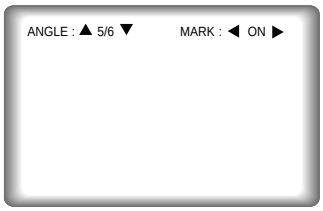
Check to see if an 'ANGLE( )' mark is present at the upper right hand corner of the screen.

1 When an 'ANGLE' mark is shown, press the **Angle** button.



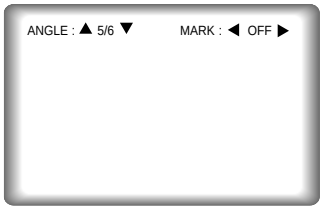
(An example of Angle information display)

2 Use the UP/DOWN (▲/▼) button to select the desired screen angle.
Then press the **Enter** button.



(An example of Angle information display)

3 Use the LEFT/RIGHT (◀/▶) button to determine whether or not the 'ANGLE' mark will be displayed.



- This function is disc-dependent, and may not work with all DVDs.
- This function does not work when a DVD has not been recorded with a multi-camera angle system.

GB

Using the zoom

Using the Zoom Function (DVD/VCD)

1 During playback or pause mode, press the **Zoom** button on the remote. The square shadow will be displayed on screen.

2 Use the UP/DOWN (▲/▼) or LEFT/RIGHT (◀/▶) button to select the part of the screen you want to zoom.

3 Press the **Enter** button.

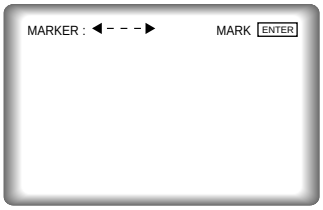
- During DVD playback, press **Enter** to zoom in 2X/4X/normal in order.
- During VCD playback, press **Enter** to zoom in 2X/normal in order.

Using the Bookmark Function

The Bookmark function lets you select parts of a DVD or VCD (MENU OFF mode) so that you can quickly find the section at a later time.

Using the Bookmark Function (DVD/VCD)

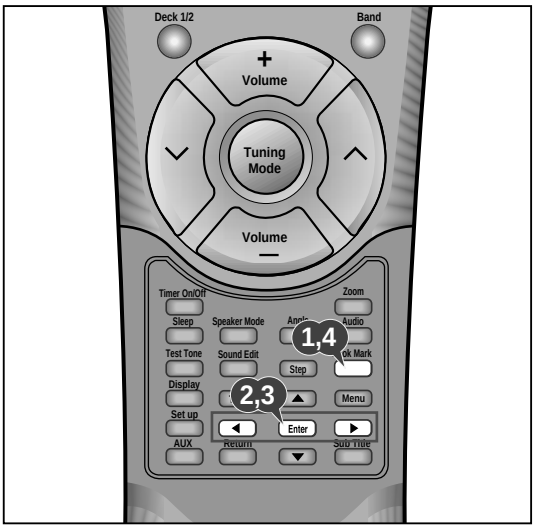
1 During playback, press the **Book Mark** button on the remote. Then 'MARKER' will be displayed.



2 Use the LEFT/RIGHT (◀/▶) button to move to the desired bookmark icon.

3 When you reach the scene you want to mark, press the **Enter** button. The icon will change to a number (1, 2, or 3).

4 Press the **Book Mark** button to turn off the display.



GB

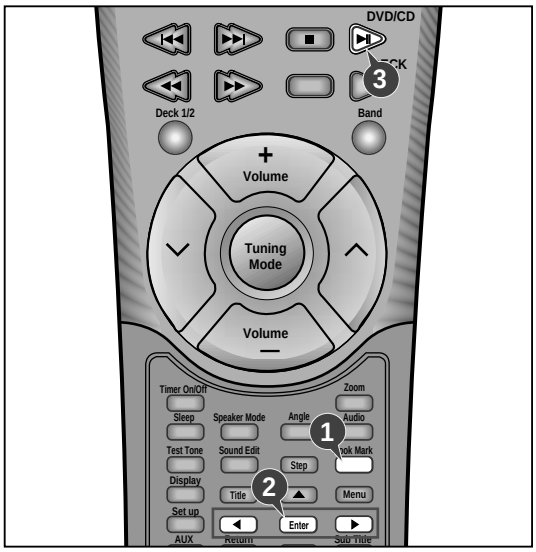
Using the Bookmark Function (Cont'd)

Recalling a Marked Scene

1 During playback, press the **Book Mark** button on the remote.

2 Use the LEFT/RIGHT (◀/▶) button to select a marked scene.

3 Press the **Play/Pause** button to skip to the marked scene.



Clearing a Bookmark

1 During playback, press the **Book Mark** button on the remote

2 Use the LEFT/RIGHT (◀/▶) button to select the bookmark number you want to delete.

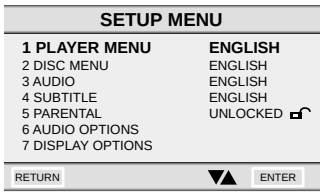
3 Press the **Clear** button to delete a bookmark number.
Press the **Book Mark** button to turn off display.

➢ ♦ Up to three scenes may be marked at the same time.
♦ When in VCD 2.0 mode (menu on mode), this function does not work.
♦ Depending on the disc, the Bookmark function may not work.

Using the setup Menu

The Setup menu lets you customize your MAX-DN55 player by allowing you to select various language preferences, set up a parental level, even adjust the player to the type of television screen you have (i.e. widescreen).

1 Press the **Setup** button on the remote in stop mode.



- **PLAYER MENU :** Setup of the Display Language (**See P23**)
  Use the Player preference menu to select the language for the player's on-screen displays.
- **DISC MENU :** Setup of the Menu Language (**See P23**)
  Use the Menu preference menu to select the language you want a DVD's disc menu to be displayed in.
- **AUDIO :** Setup of the Audio Language (**See P24**)
  Use the Audio preference menu to select the soundtrack language.
- **SUBTITLE :** Setup of the Subtitle Language (**See P24**)
  Use the Subtitle preference menu to select the language the disc's subtitles are to be displayed in.
- **PARENTAL :** Setup of the Parental Level (**See P25**)
  Allows users to set the level necessary to prevent children from viewing unsuitable movies such as those with violence, adult subject matter, etc.
- **AUDIO OPTIONS :** Setup of the Audio Options (**See P26**)
  Use to set up the audio options such as digital out setup.
- **DISPLAY OPTIONS :** Setup of the Display Options (**See P28**)
  Use to select which type of screen you want to watch and several display options.

2 Use the UP/DOWN (▲/▼) button on the remote to access the different features.

3 Press the **Enter** button to access the sub features.
To make the setup screen disappear after setting up, press **Setup** button again.

♦ Depending on the disc, some SETUP menu selections may not work.

GB

Setting up the language features

If you set the player menu, disc menu, audio and subtitle language in advance, it will come up automatically every time you watch a movie.

Using the Player Menu

Example: Setting up in ENGLISH.

1 Press the **Setup** button when in stop mode.

SETUP MENU	
1 PLAYER MENU	**ENGLISH**
2 DISC MENU	ENGLISH
3 AUDIO	ENGLISH
4 SUBTITLE	ENGLISH
5 PARENTAL	UNLOCKED
6 AUDIO OPTIONS	
7 DISPLAY OPTIONS	
RETURN	▼▲ ENTER

2 Use the UP/DOWN (▲/▼) button to select the PLAYER MENU.

3 Press the **Enter** button.

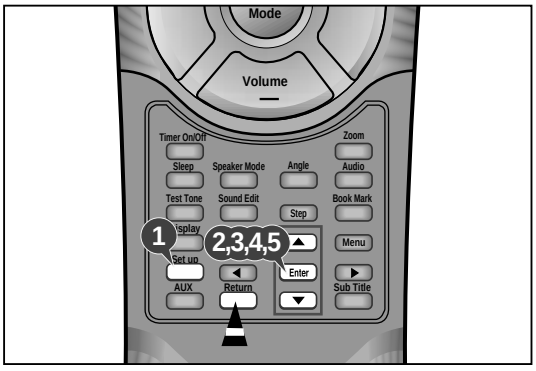
4 Use the UP/DOWN (▲/▼) button to select 'ENGLISH'.

PLAYER MENU LANGUAGE	
1	**ENGLISH**
2	FRANCAIS
3	DEUTSCH
4	ESPAÑOL
5	ITALIANO
6	NEDERLANDS
RETURN	▼▲ ENTER

5 Press the **Enter** button.

♦ ENGLISH is selected and the screen returns to SETUP MENU.

♦ To make the SETUP MENU disappear, press the **Return** button.



Using the Disc Menu Language

This function changes the language only for the text on the disc menu screens.

Example: Setting up in ENGLISH

1 Press the **Setup** button when in stop mode.

SETUP MENU	
1 PLAYER MENU	**ENGLISH**
2 DISC MENU	ENGLISH
3 AUDIO	ENGLISH
4 SUBTITLE	ENGLISH
5 PARENTAL	UNLOCKED
6 AUDIO OPTIONS	
7 DISPLAY OPTIONS	
RETURN	▼▲ ENTER

2 Use the UP/DOWN (▲/▼) button to select DISC MENU.

3 Press the **Enter** button.

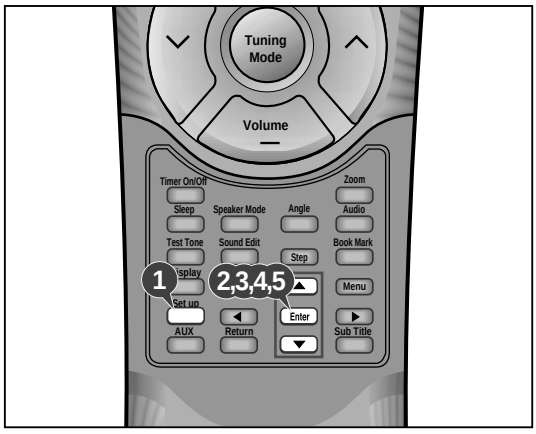
4 Use the UP/DOWN (▲/▼) button to select ' ENGLISH'.

DISC MENU LANGUAGE	
1	**ENGLISH**
2	FRANCAIS
3	DEUTSCH
4	ESPAÑOL
5	ITALIANO
6	NEDERLANDS
7	OTHERS
RETURN	▼▲ ENTER

♦ Select "OTHERS" if the language you want is not listed.

5 Press the **Enter** button.

♦ ENGLISH is selected and the screen returns to SETUP MENU.



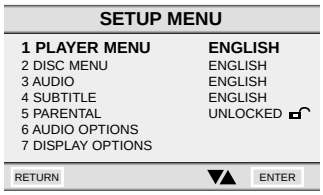
GB

Setting up the language features (Cont'd)

Using the Audio Language

Example: Setting up in ENGLISH.

1 Press the **Setup** button when in stop mode.



2 Press the UP/DOWN (▲/▼) button to select to **Audio**.

3 Press the **Enter** button.

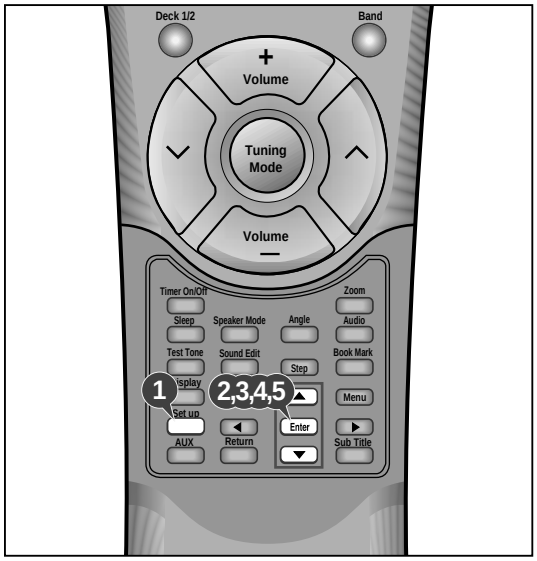
4 Press the UP/DOWN (▲/▼) button to select ENGLISH.

♦ Select "ORIGINAL" if you want the default soundtrack language to be the original language the disc is recorded in.

♦ Select "OTHERS" if the language you want is not listed.

5 Press the **Enter** button.

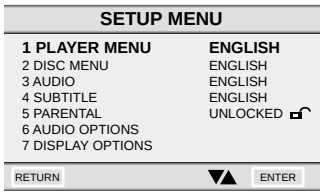
♦ ENGLISH is selected and the screen returns to SETUP MENU.



Using the Subtitle Language

Example: Setting up in ENGLISH.

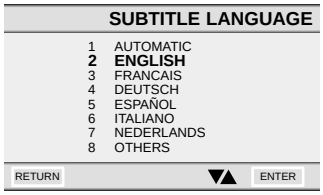
1 Press the **Setup** button when in stop mode.



2 Use the UP/DOWN (▲/▼) button to select **Sub Title**.

3 Press the **Enter** button.

4 Use the UP/DOWN (▲/▼) button to select 'ENGLISH'.

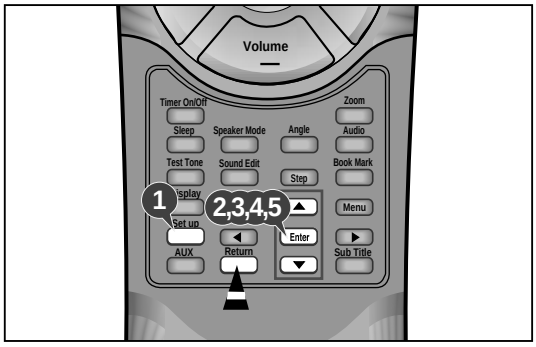


♦ Select "AUTOMATIC" if you want the subtitle language to be the same as the language selected as the audio preference.

♦ Select "OTHERS" if the language you want is not listed. Some discs may not contain the language you select as your initial language; in that case the disc will use its original language setting.

5 Press the **Enter** button.

♦ ENGLISH is selected and the screen returns to SETUP MENU.



How to make the SETUP MENU disappear or return to menu screen during set up.

Press **Return** button.

♦ If the selected language is not recorded on the disc, the original pre-recorded language is selected.

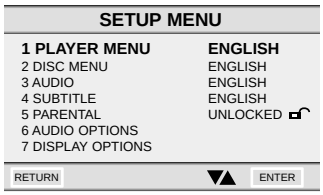
GB

Setting up the parental level

The Parental Level function works in conjunction with DVDs that have been assigned a rating - which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

SETTING THE PASSWORD

1 Press the **Setup** button when in stop mode.

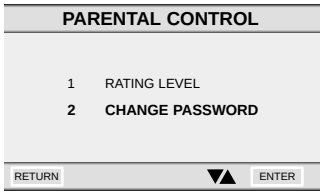


2 Press the UP/DOWN (▲/▼) button to select PARENTAL.

3 Press the **Enter** button and enter your 4-digit password by pressing the 0-9 button.

♦ '7777' is the original password that has been encrypted in the player.

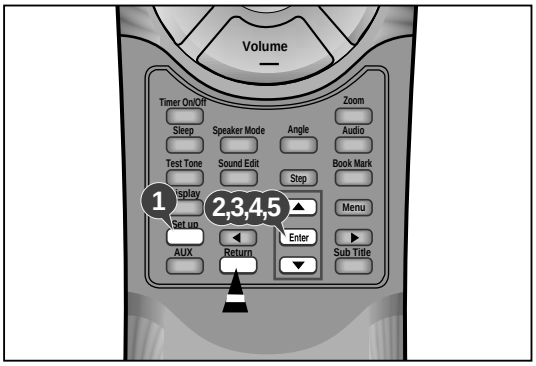
4 Move to CHANGE PASSWORD by using the UP/DOWN (▲/▼) button and press the **Enter** button.



5 Enter the new password.

♦ After entering the new password, reenter it one more time to make sure the password works.

♦ The Parental Level function is compatible only with parental level encoded discs.



SETTING THE PARENTAL LEVEL

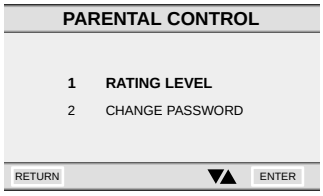
Example: Setting up in LEVEL 6

1 Press the **Setup** button when in stop mode.

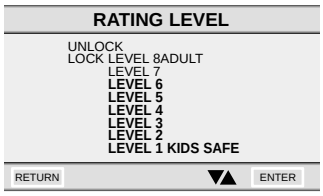
2 Press the UP/DOWN (▲/▼) button to select PARENTAL.

3 Press the **Enter** button and enter your 4-digit password by pressing the 0-9 button.

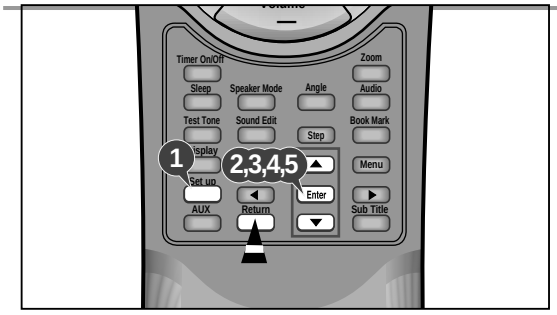
4 Move to the RATING LEVEL by using the UP/DOWN (▲/▼) button and press the **Enter** button.



5 Move to LEVEL 6 by using the UP/DOWN (▲/▼) button and press the **Enter** button.



♦ The disc which contains LEVEL 7 or LEVEL 8 will now not play.



How to make the SETUP MENU disappear or return to menu screen during set up.

Press **Return** button.

➢ ♦ **What if a DVD's rating exceeds the player's rating level?**
The player alerts you when you try to play a DVD with a rating that exceeds the level you've set.
The message, "Your selection exceeds the rating level for this player." appears on screen.
Some discs are authorized with a rating override feature included When you play a disc with this feature, the message, "Your selection exceeds the rating level for this player. Override the level?" is displayed. Select "Override" or "Cancel." If you choose to override the rating level, you will need to enter your 4-digit password to begin playback.

GB

Setting up audio options

1 Press the **Setup** button when in stop mode.

SETUP MENU	
1 PLAYER MENU	**ENGLISH**
2 DISC MENU	ENGLISH
3 AUDIO	ENGLISH
4 SUBTITLE	ENGLISH
5 PARENTAL	UNLOCKED
6 AUDIO OPTIONS	
7 DISPLAY OPTIONS	
RETURN ▼▲ ENTER	

2 Use the UP/DOWN (▲/▼) button to select AUDIO OPTIONS. Then press the **Enter** button.

3 Use the UP/DOWN (▲/▼) button to select the desired item. Then press the **Enter** button.

AUDIO OPTIONS	
1 DOLBY DIGITAL OUT	BITSTREAM
2 MPEG-2 DIGITAL OUT	BITSTREAM
3 DTS	OFF
4 DYNAMIC COMPRESSION	ON
5 2X SCAN AUDIO	OFF
6 SPEAKER SETUP	
RETURN ▼▲ ENTER	

DOLBY DIGITAL OUT/MPEG-2 DIGITAL OUT
A digital surround sound format that is recorded by Dolby Digital/MPEG-2 Audio. Select the suitable output signal type of DIGITAL AUDIO OUT-PUT/MPET-2 DIGITAL OUT (Bitstream/PCM) during playback.

DTS
This program features discrete 5.1 channel sound-track and must be played though DTS-capable equipment. When played through DTS equipment, sound will be heard from all five system speakers and a sub-woofer.

DYNAMIC COMPRESSION
Compresses the dynamic range (quietest to loudest sound) of a disc's soundtrack. This function is disc-dependent, and may not work with all DVDs.

2 x SCAN AUDIO
Turns audio off or on when a disc is in 2 x playback mode.

SPEAKER SETUP
Adjusts the speaker size, the sound balance between speakers, etc.

4 Use the UP/DOWN (▲/▼) button to select the desired item. Then press the **Enter** button.

DOLBY DIGITAL OUTPUT

- PCM
  Converts to PCM(2CH) of 48kHz/16Bit. Select PCM when using the Analog Audio Outputs.
- BITSTREAM
  Convert to Dolby Digital BITSTREAM (5.1CH). Select BITSTEREAM when using the Digital Audio Output.

MPEG-2 DIGITAL OUT

- PCM
  Converts to PCM (2CH) of 48KHz/16Bit. Select PCM when using the Analog Audio Outputs.
- BITSTREAM
  Convert to MPEG-2 Audio BITSTREAM. Select BITSTEREAM when using the Digital Audio Output.

➢ Be sure to select the correct Digital Output or no audio will be heard.

DTS

- ON
  Outputs DTS BITSTREAM via only digital output. Select DTS when connecting to a DTS DECODER.
- OFF
  Doesn't output digital signal.

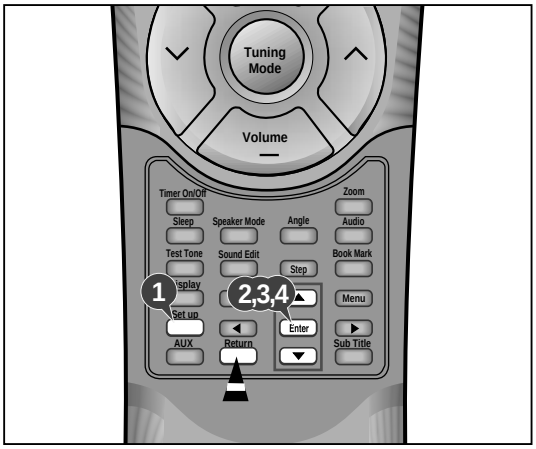
DYNAMIC COMPRESSION

- ON
  To select dynamic compression.
- OFF
  To select the standard range.

2X SCAN AUDIO

- ON
  Turn 2 x audio on.
- OFF
  Turn 2 x audio off.

Though 2 x SCAN AUDIO is ON in SETUP MENU, no sound will be heard on discs which are recorded with LPCM or DTS.

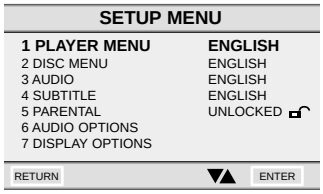


GB

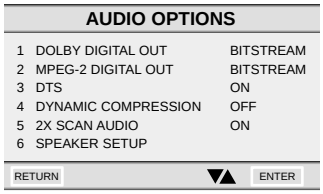
Setting up audio options (Cont'd)

SPEAKER SETUP Function

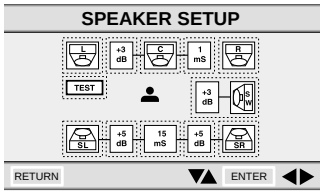
1 Press the **Setup** button when in stop mode.



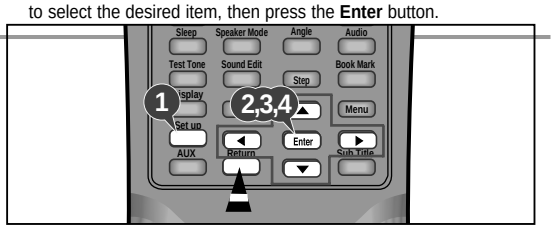
2 Use the UP/DOWN (▲/▼) button to select AUDIO OPTIONS. Then press the **Enter** button.



3 Use the UP/DOWN (▲/▼) button to select the SPEAKER SETUP,



4 then press the **Enter** button.
Use the UP/DOWN (▲/▼) button or LEFT/RIGHT (◀/▶) button to select the desired item, then press the **Enter** button.



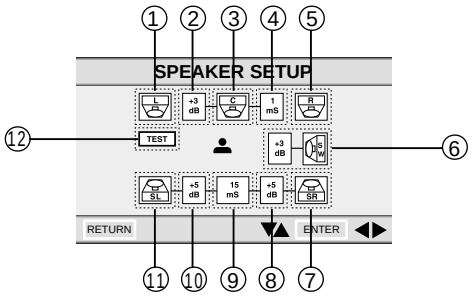
Operation method for speaker setting:

Movement mode : When the marks for ▼▲ ENTER ◀▶ are displayed at the right bottom of the screen, movement between the boxes on the screen is possible.
Press the UP/DOWN (▲/▼) button or the LEFT/RIGHT (◀/▶) button to move between the boxes.
To adjust the selected item, press the **ENTER** button to enter into adjustment mode.

Adjustment mode : When the marks for ▼▲ ENTER are displayed at the right bottom of the screen, adjustment for the respective box is possible. Press the UP/DOWN (▲/▼) button to adjust the speaker size, the volume, etc. To move to the next box after completion of adjustment, press the **ENTER** button to switch to movement mode.

How to make the SETUP MENU disappear or return to menu screen during set up.

Press **Return** button.



① This selects the size (large/small) of the left front speaker. The size of the speaker picture changes. The right front speaker ⑤ also changes at the same time. Volume adjustment is not possible for the front speakers. Select "large" for the accessory speakers.

② This sets the volume for the center speaker.

③ This selects the size (large, small or none) of the center speaker. Select "small" for the accessory speaker.

④ This adjusts the delay time for the center speaker (delay time in regard to the front speakers).

⑤ This selects the size (large/small) of the right front speaker. The right front speaker follows the left front speaker. Operation is not required when selection has been made for ① .

⑥ This selects super woofer status.

⑦ This selects the size (large/small/none) of the right surround speaker. The right left surround ⑪ also changes at the same time. Select "small" for the accessory speakers.

⑧ This sets the volume for the right surround speaker.

⑨ This adjusts the delay time for the left and the right surround speaker (delay time in regard to the front speakers). The left and the right speaker change together.

⑩ This sets the volume level for the left surround speaker.

⑪ This selects large, small, or none for the left surround speaker. The right surround speaker ⑦ follows this setting. Operation is not required when selection has been made for ⑦ .

⑫ When TEST (test tone) has been selected, test noise is put out sequentially from the speakers, starting with the left front speaker. Check that the test noise can be heard from all speakers and that the same volume is heard from all speakers.
If the volume is different for some speakers, return to the previous step and adjust the volume for that speaker.

GB

When [Delay time setting] is selected

The ideal listening position for 6-channel surround playback is the point at equal distance from all speakers.
By setting the delay time for the center and surround speakers, this item realizes the ideal listening position virtually. (The center and surround speakers can be set as if they are laid out on the dotted line circle shown below.)

[Center speaker setting]
(A) = Df - Dc

• When Df = Dc or Df < Dc in the figure under "Delay time setting", set this value to 0 ms.

Distance A	Setting
Approx. 40cm	1 ms
Approx. 80cm	2 ms
Approx. 120cm	3 ms
Approx. 160cm	4 ms
Approx. 200cm	5 ms

[Surround speaker setting]
(B) = Df - Dc

• When Df = Ds in the figure under "Delay time setting", set this value to 0 ms.

Distance B	Setting
Approx. 120cm	3 ms
Approx. 240cm	6 ms
Approx. 360cm	9 ms
Approx. 480cm	12 ms
Approx. 600cm	15 ms

Setting up display options

1 Press the **Setup** button in stop mode.

SETUP MENU	
1 PLAYER MENU	**ENGLISH**
2 DISC MENU	ENGLISH
3 AUDIO	ENGLISH
4 SUBTITLE	ENGLISH
5 PARENTAL	UNLOCKED
6 AUDIO OPTIONS	
7 DISPLAY OPTIONS	
RETURN ▼▲ ENTER	

2 Use the UP/DOWN (▲/▼) button to select DISPLAY OPTIONS. Then press the **Enter** button.

3 Use the UP/DOWN (▲/▼) button to select the desired item. Then press the **Enter** button.

DISPLAY OPTIONS	
1 TV ASPECT	WIDE
2 ANGLE MARK	ON
3 STILL MODE	AUTO
4 SCREEN MESSAGES	ON
5 BLACK LEVEL	OFF
6 QUASI – PAL	ON
RETURN ▼▲ ENTER	

- **TV ASPECT :** Depending on the type of television you have, you may want to adjust the screen setting (aspect ratio).
- **ANGLE MARK :** Use to turn on or off the on-screen displays when DVDs plays multiple angles of a particular scene.
- **STILL MODE :** Prevent picture shaking in still mode and display small text clearer.
- **SCREEN MESSAGES :** Use to turn on-screen messages on or off.
- **BLACK LEVEL**
- **QUASI – PAL**

4 Use the UP/DOWN (▲/▼) button to select the desired item. Then press the **Enter** button

- **TV ASPECT**
  - 4:3 LETTER BOX :
    Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.
  - 4:3 PAN-SCAN :
    Select this for conventional size TVs when you want to see the central portion of the 16:9 screen.
    (Extreme left and right sides of movie picture will be cut off.)
  - 16:9 WIDE :
    You can view the full 16:9 picture in your widescreen TV.
- **ANGLE MARK**
  - ON :Displays ANGLE MARK in the upper right corner of screen.
  - OFF : Doesn't display it.
- **STILL MODE**
  - FIELD : Select this feature when the screen shakes in the AUTO mode.
  - FRAME : Select this feature when you want to see small letters more clearly in the AUTO mode.
  - AUTO : When selecting AUTO, FIELD/FRAME mode will be automatically converted.
- **SCREEN MESSAGES**
  Use this feature to turn the on-screen displays that appear in screen on or off.
- **BLACK LEVEL**
  Adjust the brightness of screen.
- **QUASI – PAL**
  Depending on a disc, you can play a NTSC DVD disc by QUASI-PAL mode.

GB

Dolby Surround

The Dolby Surround feature and the center and rear speakers (standard) assure full-scale home theater sound. When playing back laser discs or video software that have been specially recorded with four-channel sound (left, right, center, rear)and steering logic(for sound directionality), astonishingly realistic sound surrounds the listener to create a new level of audio/visual entertainment.

Positioning The Speakers

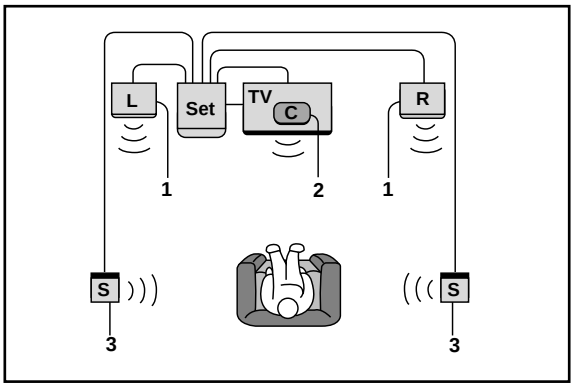
To achieve the optimum effects obtainable with this Dolby Surround system, it is important to position the speakers properly. Refer to the following illustration to find the best location in your room.

1 Front speakers

2 Center speaker
- Position in the center of the two front speakers.

3 Surround speakers
- Place the surround speakers directly to the side of or slightly behind the listening area.

- No sound is heard from the center and surround speakers when the Dolby Surround or DSP are set to off.
- The center speaker is heard only when the Dolby Surround is set to on.



Adjusting Speaker Level Balance

The unit is equipped with a built-in test signal generator called a noise sequencer which outputs a noise signal that 'travels' from channel to channel. This enables the simple adjustment of sound levels, to achieve, at the listening position, the same apparent loudness from each channel. Use the remote control.

1 Press the **Dolby Surround** button to select **PRO-LOGIC**.
Result: "**PRO-LOGIC**" appears on the displayed.

2 Press the **Test Tone** button.
- A noise signal is sent to each channel in turn in the following sequence.

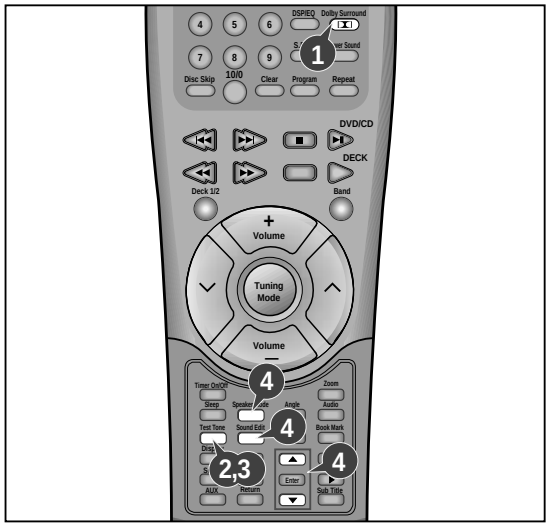
L → CNTR → R → REAR

(L : Left Speaker, CNTR : Center Speaker,
R : Right Speaker, REAR : Rear Speaker)

3 Press the **Test Tone** button again to stop the noise signal.

4 To change the sound levels or delay time after adjusting the balance with the noise sequencer.
- Press the **Sound Edit** button.
  While **L, R, CNTR, REAR** is displayed, press the UP/DOWN (▲/▼) button.
- Press the **Speaker Mode** button.
  While **CNTR, REAR, DELAY TIME** is displayed, press the UP/DOWN (▲/▼) button.
  – **CNTR** : Large/Small/None
  – **REAR** : USE/None
  – **DELAY TIME** : 15/20/25/30 MS

When the Dolby surround system is on, this function can be operated.



DOLBY DIGITAL

DOLBY SURROUND PRO · LOGIC

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dts DIGITAL OUT

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GB

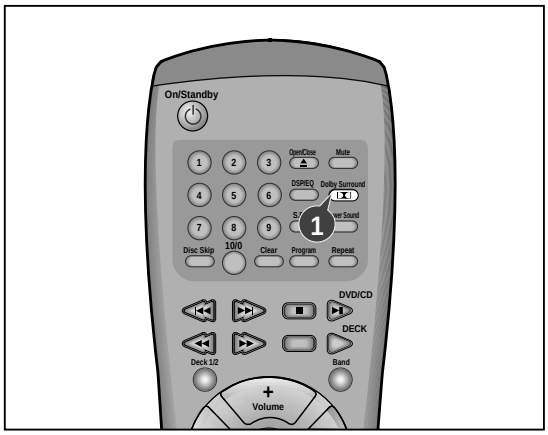
Dolby Surround (Cont'd)

Dolby Surround modes

➢ Press the **Dolby Surround** button.

♦ PRO-Logic is selected, and the playback sound has the Dolby Surround effect.

☛ To cancel Dolby Surround mode
Press the **Dolby Surround** button repeatedly until OFF is displayed.



➢ ♦ When playing DVD, if an Audio is Dolby Digital, it can not be operated.

♦ When being connected to headphones and microphone, this function cannot be operated.

Additional Dolby Surround modes

In addition to the PRO-Logic mode, this unit is also equipped with the 3 STEREO modes.

♦ **PRO-Logic :** Use this mode when rear speakers are connected. The center channel signals are output through the left and right speakers.

PRO-LOGIC → 3 STEREO → OFF

♦ **3 STEREO :** Use this mode when no rear speakers are connected. This mode reproduces rear sounds through the front speakers.

3 STEREO → OFF

➢ ♦ Depending on the sound source or listening conditions, a surround effect may not be obtained even when the Dolby Surround is on.

♦ The full Dolby Surround effect cannot be obtained when using software without DOLBY SURROUND PRO · LOGIC mark. In this case, use the DSP system instead.

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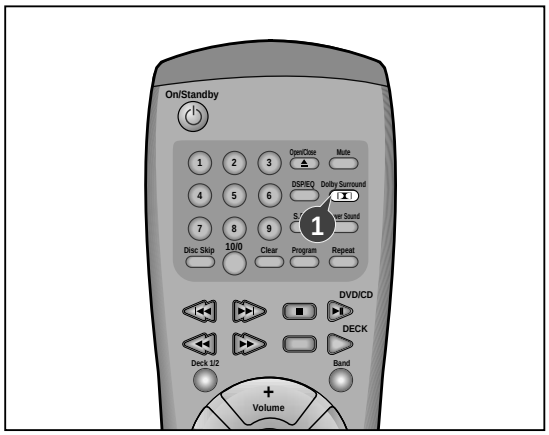


GB

Searching for and Storing the Radio Stations

You can store up to:

- 15 FM stations
- 15 AM stations

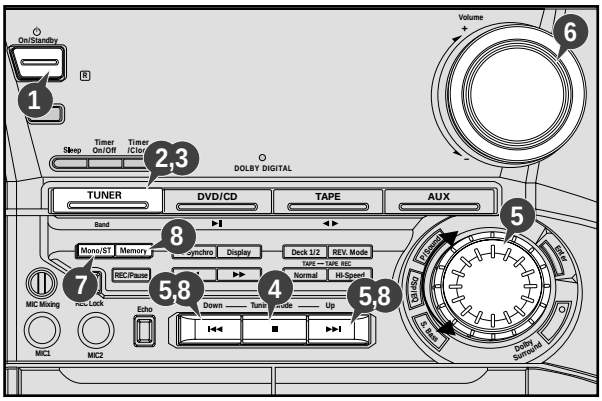
(option)

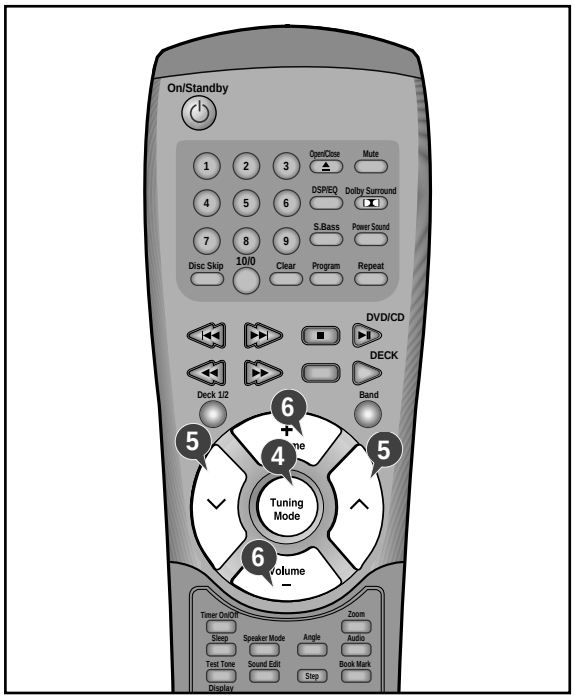
- 15 FM stations
- 8 MW stations
- 7 LW stations

(option)

- 15 FM stations
- 5 MW stations
- 5 SW1 stations
- 5 SW2 stations

(option)





1 Switch the system on by pressing **On/Standby**.

2 Select the TUNER function by pressing **TUNER** on the front panel.

3 Select the required frequency band by pressing **TUNER (Band)** again on the front panel or **Tuner (Band)** on the remote control.
Result: The appropriate indication is displayed:

♦ **FM**	Frequency Modulation
♦ **AM(MW)**	Medium Wave
♦ **LW(OPTION)**	Long Wave
♦ **SW1, SW2(OPTION)**	Short Wave

4

To search for a station...	Press Tuning Mode
Manually	One or more times until **MANUAL** is displayed.
Automatically	One or more times until **AUTO** is displayed.

5 Select the station to be stored by:
- ♦ Turning the **Multi Jog** knob to the right or to the left to increase or decrease the frequency respectively
  or
- ♦ Pressing **Tuning Mode** ⌄ or ⌃ on the remote control

- ♦ To scroll through the frequencies faster when searching manually, hold down the **Tuning Mode Down** or **Up** buttons.
- ♦ The automatic search procedure may stop on a frequency that does not correspond to a radio station. If this happens, use the manual search mode.

6 Adjust the volume by:
- ♦ Turning the **Volume** knob on the front panel
  or
- ♦ Pressing the **Volume +** or **–** buttons on the remote control

7 Select the stereo or mono mode by pressing **Mono/ST**.

8 If you do not want to store the radio station found, revert to Step 4 and search for another station.
Otherwise:

a Press **Memory**.
Result: The **PRGM** is displayed for a few seconds.

b Press **Tuning Mode Down** and **Up** to assign a program number between 1 and 15.

c Press **Memory** to store the radio station.
Result: **PRGM** is no longer displayed and the station is stored.

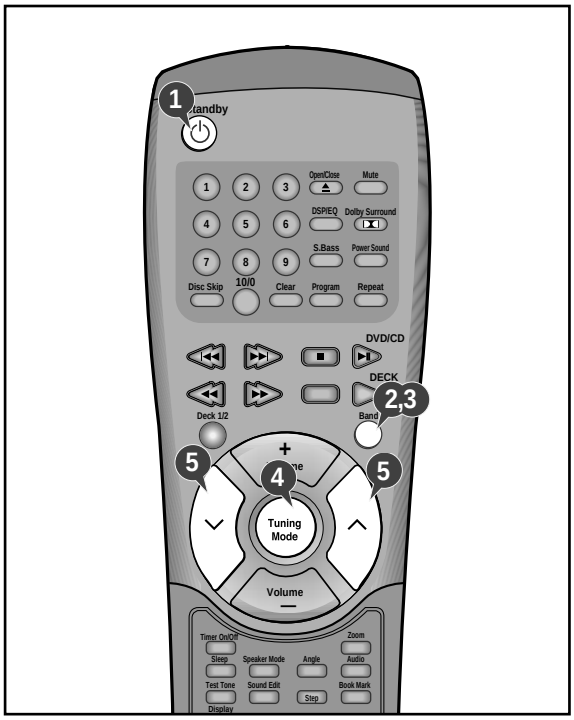
9 To store any other radio frequencies required, repeat Steps **3** to **8**.

The PROGRAM function can be used to assign a new station to an existing program number.

Selecting a Stored Station

You can listen to a stored radio station as follows:

1. Switch the system on by pressing **On/Standby**.
2. Select the TUNER function by pressing **Band** on remote control.
3. Select the required frequency band by pressing **Band** on the remote control or **TUNER** (Band) again on the front panel.
4. Press the **Tuning Mode** button on the front panel of the unit, or the **Tuning Mode** button on the remote control until "**PRESET**" is displayed.
5. Tuning the **Multi-Jog** on the front panel left or right until the desired station is found.
   or
   Select the desired station by pressing the station number stored, using the **Tuning Mode** ﹀ or ﹀ button on the remote control.
   Result: The desired station is now received.

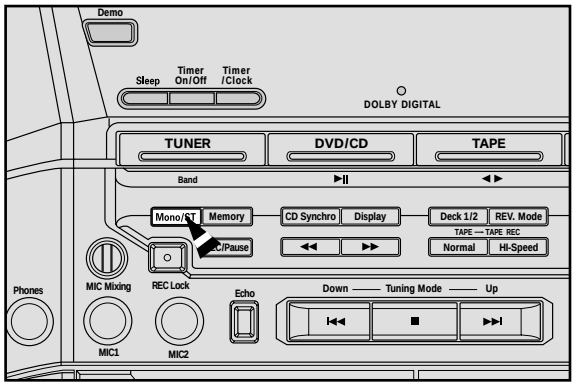


Improving Radio Reception

You can improve the quality of radio reception by:

- Rotating the FM or AM(MW) aerial
- Testing the positions of the FM and AM(MW) aerials before fixing them permanently

➢ If reception from a specific FM radio station is poor, press **Mono/ST.** to switch from stereo mode to mono. The quality of the sound will be improved.



GB

Listening to a Cassette

➢ ♦ Always treat your cassettes with care; refer, if necessary, to the section entitled "**Precautions When Using Audio Cassettes**" on page 40.

1 Switch the system on by pressing the **On/Standby** button.

2 Select the TAPE function by pressing **TAPE** on the front panel.

3 Open either cassette deck 1 or 2 by pushing and releasing the deck cover where **PUSH EJECT** (⏏) is written.

4 Insert the pre-recorded cassette with the open edge of the tape facing downward.

5 Close the deck by pushing on it until it clicks into place.
Result: Depending on the deck selected, the **1** or **2** indication is displayed in front of the counter number.

➢ If you insert a cassette in both decks, the system selects the deck in which you inserted the second cassette.

6 If you have inserted two cassettes, press **Deck 1/2** on the front panel or directly the **Deck 1/2** button on the remote control to select the cassette to be played.

Result: Depending on the deck selected, the TAPE 1 or TAPE 2 indication is displayed.

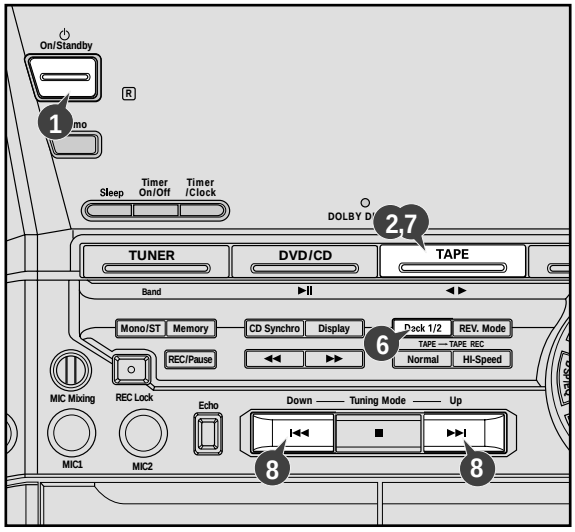
7

To listen to...	Press ...
Side A	TAPE (◄►) DECK 1 and DECK 2
Side B	TAPE (◄►) DECK 2 only

Result: The cassette starts playing.

8 When the cassette is stopped, select one of the following functions as required.

To...	Press ...
Rewind the cassette	⏮
Fast-forward the cassette	⏭



CD Synchro Record Feature

You can record a compact disc on a cassette in two different ways:

♦ Synchronised recording
♦ Direct recording

This feature enables you to synchronize the start of the recording with the start of the disc or track of your choice.

1 Switch the system on by pressing **On/Standby**.

2 Insert a blank cassette in Deck 2.

3 Select the DVD/CD function by pressing **DVD/CD** on the front panel.

4 Load a compact disc.

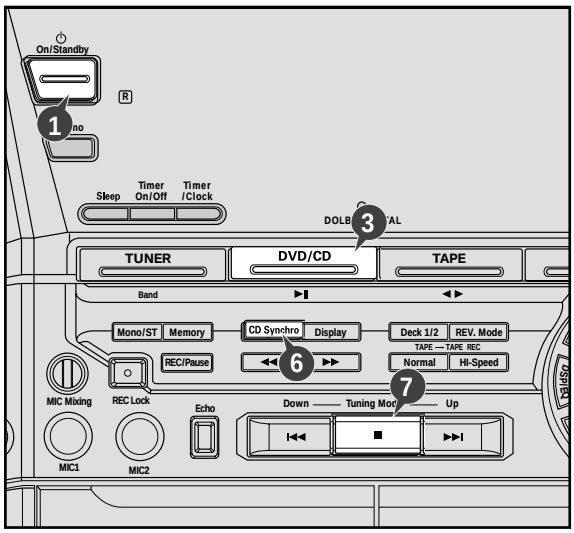
5 Select the required disc.

6 Select the required track and press **CD Synchro** or press **CD Synchro** directly to start recording at the beginning of the disc.
Result: **REC** is displayed and recording starts.

7

To stop...	Press ...
Recording and playing the compact disc	■

➢ The function of CD Synchro is operated in only CD.



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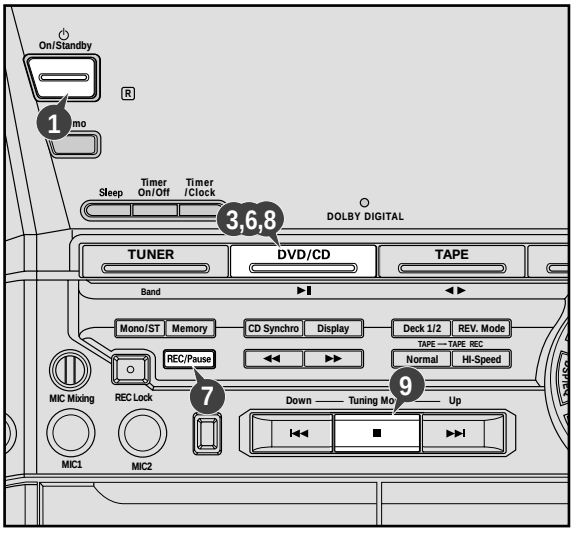
Recording a Compact Disc

The direct recording mode enables you to start recording with any track on the compact disc.

- You can only record on cassettes in Deck 2.
- You do not need to adjust the volume, as it has no effect on the recording.
- The CD must be in stop mode. When Record button is pressed on Deck 1, recording starts and the CD starts playing automatically.

1. Switch your system on by pressing **On/Standby**.
2. Insert a blank cassette in Deck 2.
3. Select the DVD/CD function by pressing **DVD/CD** on the front panel.
4. Load the compact disc.
5. Select the required disc.
6. Select the required track on the compact disc and press ►II on the front panel or ►II on the remote control to set the compact disc player to Pause mode.
7. Press the **REC/Pause**.
   Result: **REC** flashes.
8. Press the ►II to start playing the track.
   Result: The track is recorded on the cassette.
9. When you have finished recording, press ■ for Deck 2 on the remote control or ■ on the front panel to stop recording.

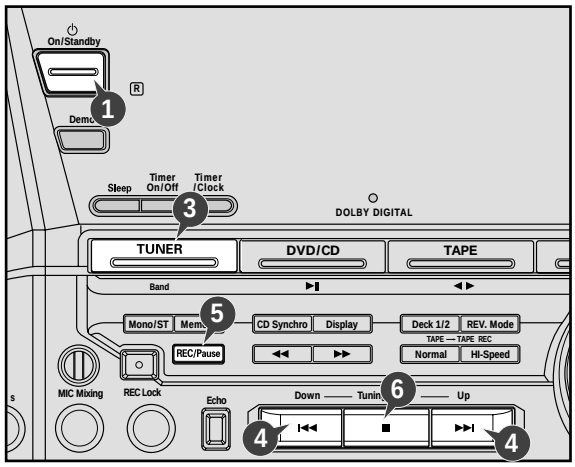


Recording a Radio Program

You can record a radio program of your choice.

- You can only record on cassettes in Deck 2.
- You do not need to adjust the volume, as it has no effect on the recording.

1. Switch the system on by pressing **On/Standby**.
2. Insert a blank cassette in Deck 2.
3. Select the TUNER function by pressing **TUNER** on the front panel.
4. Select the radio station that you wish to record by pressing **Tuning Mode** ^ or v on the remote control or by press the **Tuning Mode Down** or **Up** on the front panel.
5. Press **REC/Pause**.
   Result: **REC** is displayed in red and recording starts.
6. When you have finished recording, press the ■ for Deck 2 on the remote control or ■ on the front panel to stop recording.



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Copying a Cassette (Dubbing)

You can copy a cassette from Deck 1 to Deck 2. Two options are available:

- Normal speed dubbing
- High-speed dubbing

➢
- You do not need to adjust the volume, as it has no effect on the recording.
- Take care not to insert the tape to be copied in Deck 2, as it will be erased when you start recording.

1 Switch your system on by pressing **On/Standby**.

2 Insert a blank cassette in Deck 2.

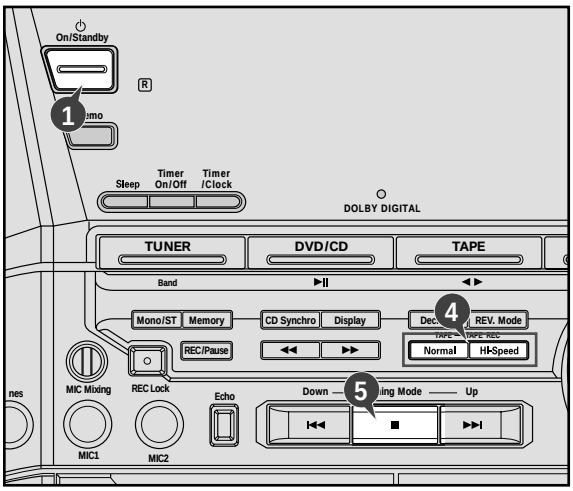
3 Insert the tape to be copied in Deck 1.

4

To copy a cassette at...	Press...
Normal speed	Normal
High speed	Hi-Speed

Result: The appropriate indications are displayed and the cassette in Deck 1 is copied to the cassette in Deck 2.

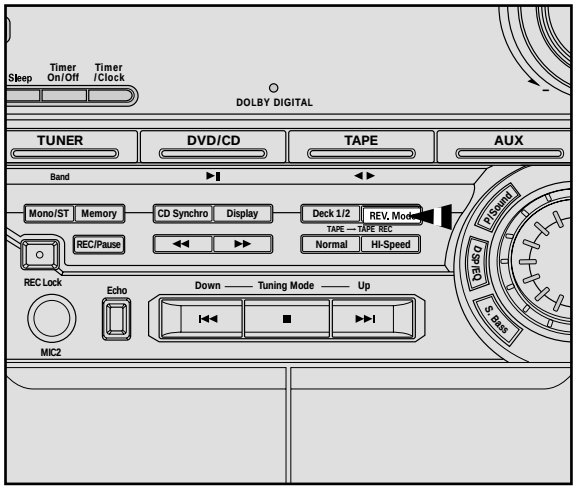
5 Press ■ on the front panel or ■ for each deck on the remote control when you have finished recording.



Selecting the Cassette Playback Mode (Deck 2 Only)

Your mini-compact system has three cassette playback modes which enable you to listen to both sides of a cassette automatically.
Press REV. Mode until the appropriate symbol is displayed.

When the display indicates...	The mini-compact system plays back...
⇀	One side of the selected cassette and then stops.
⇄	One side of the cassette. The other side of the cassette and then stops.
⟲	Both sides of the cassette indefinitely until you press stop.



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Timer Function

The timer enables you to switch the system on or off at specific times.
Example: You wish to wake up to music every morning.

➢ If you no longer want the system to be switched on or off automatically, you must cancel the timer.

☛
- Before setting the timer, check that the current time is correct.
- For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

1 Switch the system on by pressing **On/Standby**.

2 Press **Timer/Clock** until ◴ **TIMER** is displayed.

3 Press **Enter**.
Result: **ON TIME** is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-on time already set; you can set the timer switch-on time.

4 Set the timer switch-on time.

a Set the hour by tuning the **Multi Jog** knob to the right or to the left.

b Press **Enter**.
Result: The minutes flash.

c Set the minutes by tuning the **Multi Jog** knob to the right or to the left.

d Press **Enter**.
Result: **OFF TIME** is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-off time already set; you can now set the timer switch-off time.

5 Set the timer switch-off time.

a Set the hour by tuning the **Multi Jog** knob to the right or to the left.

b Press **Enter**.
Result: The minutes flash.

c Set the minutes by tuning the **Multi Jog** knob to the right or to the left.

d Press **Enter**.
Result: **VOL XX** is displayed, where **XX** corresponds to the volume already set.

6 Press **Tuning Down** and **Up** to adjust the volume level and press **Enter**.
Result: The source to be selected is displayed.

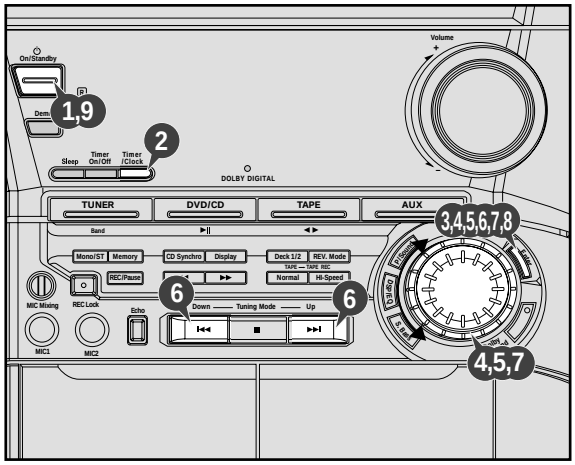
7 Turn the **Multi Jog** knob to select the source to be played when the system switches on.

If you select...	You must also...
TAPE (cassette)	Insert a recorded cassette in one of the decks before setting the system to standby.
TUNER (radio)	**a** Press **Enter**. **b** Select the FM or AM frequency band by tuning the **Multi Jog** knob to the right or to the left. **c** Press **Enter**. **d** Select a preset station by tuning the **Multi Jog** knob to the right or to the left.
CD (compact disc)	**a** Load one or more compact discs. **b** Select the required disc.

8 Press **Enter** to confirm the timer.

9 Press **On/Standby** to set the system to standby mode.
Result: ◴ is displayed to the bottom left of the time, indicating that the timer has been set. The system will switch on and off automatically at the required times.

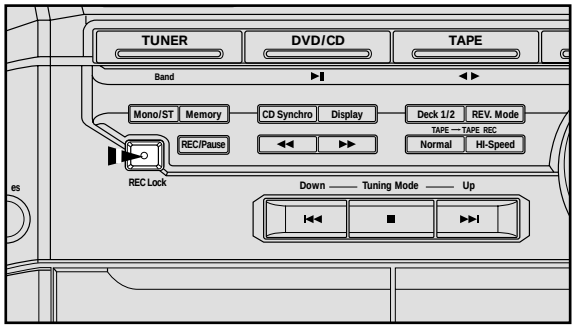
➢ If the timer switch on and off times are identical, the word **ERROR** is displayed.



For the Protection of being Recorded

Press REC LOCK (recording protection) button.

➢
- When REC Lock (recording protection) lamp is lighted up all of the buttons are not activated. (Volume, Demo key is activated.)
- It is a function that the recording stop is prevented by other button action during recording.
- REC Lock (recording protection) is activated only during recording.
- When the REC Lock is on (the lamp is on), do not open the cassette door.
- When releasing, press REC Lock button once again.



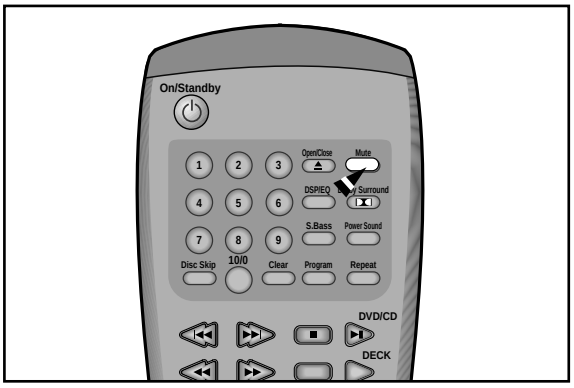
GB

Mute Function

You can turn the sound off temporarily on your system.
Example: You wish to answer a telephone call.

1 Press **Mute**.

2 To switch the sound back on (at the same volume as before), press **Mute** again or the **Volume** buttons.

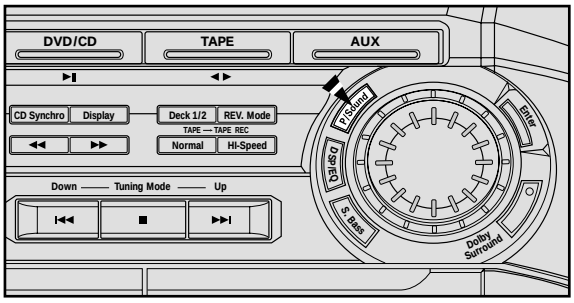


Power Sound Function

This system is equipped with the Power Sound feature, which makes the sound more powerful and full-bodied.

1 Press **P/Sound** button on the front panel.
Result: ♦ The **P/Sound** button on the front panel lights up red.
♦ **P-SOUND** is displayed for a few seconds.
♦ A more powerful resonant sound is diffused.

2 To cancel this function, press **P/Sound** again.



Selecting an Equalizer Preset

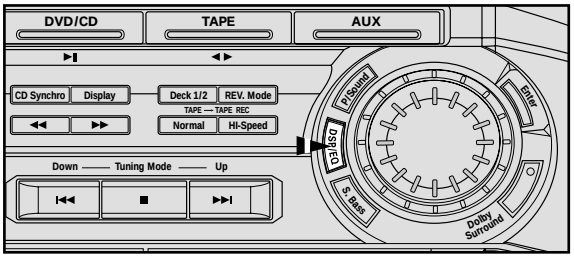
Your mini-compact system is equipped with a preset equalizer that allows you to choose the most appropriate balance between treble and bass frequencies, according to the type of music you are listening to

Press **DSP/EQ** on the front panel or **DSP/EQ** on the remote control until the required option is selected. Each time the **DSP/EQ** button is pressed in sequence, the equalizer modes and sounds mode "**POP, ROCK, CLASSIC, CINEMA, HALL, LIVE, DISCO, PASS**" are selected in this order.

Equalizer mode

PASS ..... Normal balance (linear)
POP ..... Balance suitable for pop music
ROCK ..... Balance suitable for rock music
CLASSIC ..... Balance suitable for classic music
CINEMA ..... Balance suitable for cinema
HALL ..... Balance suitable for hall
LIVE ..... Balance suitable for live
DISCO ..... Balance suitable for disco

The corresponding indication in the display is preceded by a red arrow (except for the normal balance Pass, for which nothing is displayed).

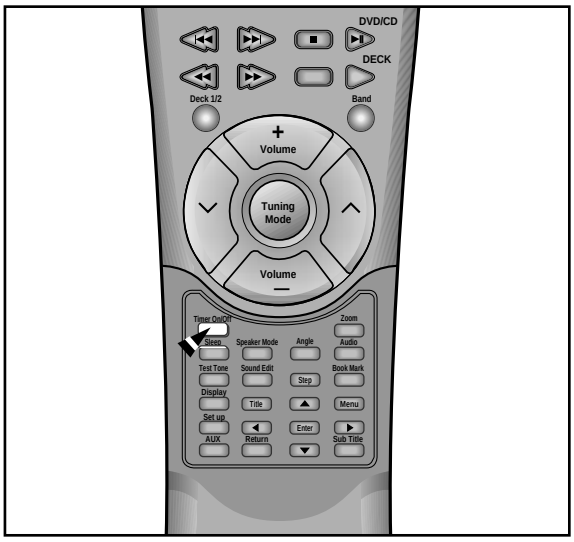


Cancelling the Timer

After having set the timer, it will start automatically as shown by the TIMER indication on the display. If you no longer wish to use the timer, you must cancel it.

➢ You can stop the timer at any time (system on or in standby mode).

To...	Press Timer-On/Off...
Cancel the timer	Once. Result: ◴ is no longer displayed.
Restart the timer	Twice. Result: ◴ is displayed again.



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Setting the System to Switch off Automatically

You can set the system to switch off automatically.
Example: You wish to go to sleep to music.

1 Press **Sleep**. on remote control or **AI/Sleep**. on front pannel.
Result: The following indications are displayed:

90 MIN

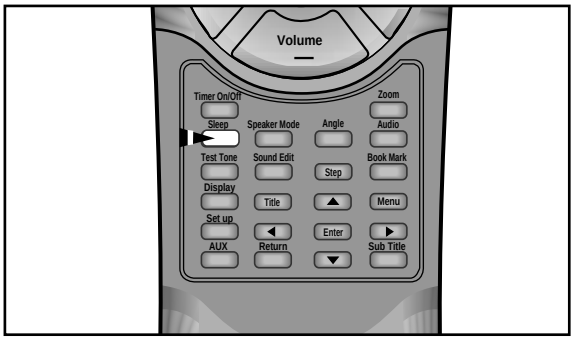
2 Press **Sleep** one or more times to indicate how long the system should continue playing before it switches off:

90 MIN → 60 MIN → 45 MIN
OFF ← 15 MIN ← 30 MIN

➢ At any time, you can:

- Check the remaining time by pressing **Sleep**
- Change the remaining time by repeating Steps **1** and **2**

3 To cancel the automatic switch-off, press **Sleep** one or more times the word **SLEEP** disappears.

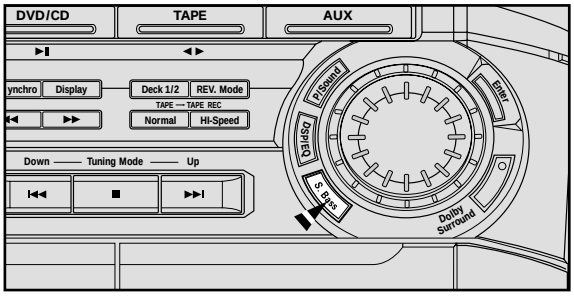


Super Bass Sound

Your mini-compact system has a bass amplification function called S.Bass (Super Bass Sound). This function makes the bass more powerful.

1 Press the **S. Bass** button on the front panel.
Result: **S. BASS** is displayed for a few seconds.

2 To cancel this function, press **S. Bass** again.

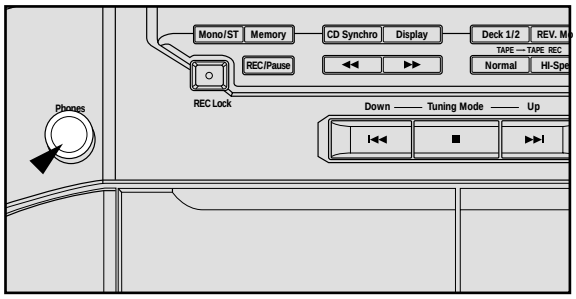


Connecting Headphones

You can connect a set of headphones to your mini-compact system so that you can listen to music or radio programmers without disturbing other people in the room. The earphones must have a 6.3 mm jack or an appropriate adapter.

Connect the headphones to the **Phones** jack on the front panel.
Result: The loudspeakers are no longer used to output the sound.

☛ Prolonged use of headphones at a high volume may damage your hearing.



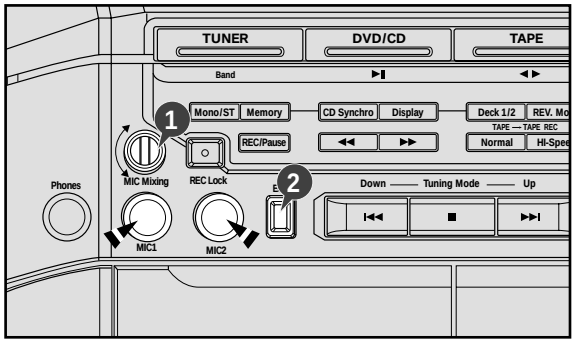
Microphone Function (option)

The microphone enables the user to mix in his or her vocals to sing-along with the music.

Preparation
Plug the microphone with a 6.3mm mic jack into microphone terminal.

1 Turn the **MIC Mixing** switch to adjust the mic volume.

2 Press **Echo** button.
Result: Press **Echo** button to select on and off.



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Connecting to an External Source

The auxiliary input can be used to take advantage of the sound quality of your mini-compact system when listening to other sources.

Examples: ♦ A television
♦ A video disc player
♦ A DAT cassette player
♦ A Hi-Fi stereo video cassette recorder

➢ To connect the external source, the source must have an audio output. In addition, you need an RCA connection cable.

1 Set the system to standby mode and disconnect it and the external source from the main.

2 Connect the audio cable to the rear of the mini-compact system.

Connect the...	To the connector marked...
Red jack	R (right)
White jack	L (left)

➢ For optimum sound quality, do not invert the right and left channels.

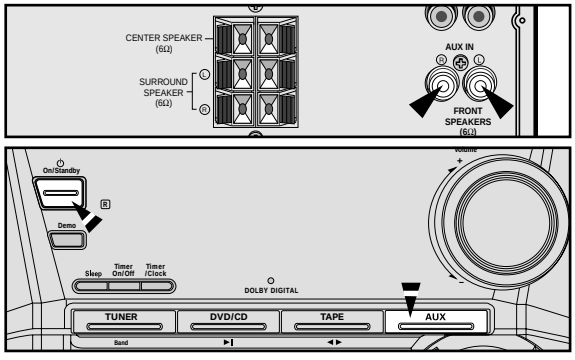
3 Plug the system back into the main socket and press **On/Standby** to switch it on.

4 Select the AUX source by pressing **AUX** on the front panel one or more times.
Result: **AUX** is displayed.

5 Switch the external source on.

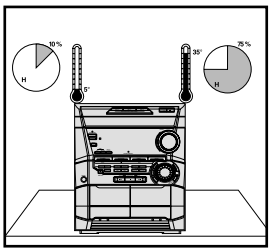
6 Adjust the volume and balance as required:
♦ Volume ♦ Equalizer

Example: You can watch a film and take advantage of stereo sound provided that the original sound track is in stereo(as if you were in a cinema).

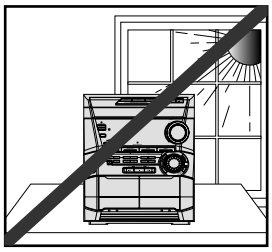


Safety Precautions

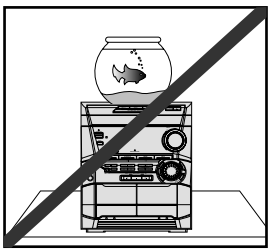
The following diagrams illustrate the precautions to be taken when using or moving your mini-compact system.



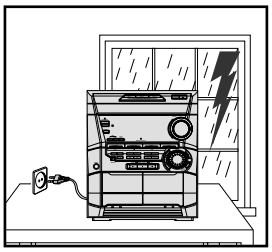
Ambient operating conditions:
Ambient temperature 5°C-35°C
Humidity 10-75%



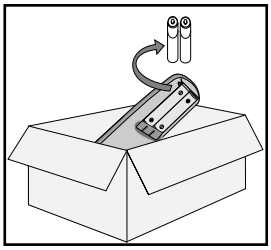
Do not expose the unit to direct sun radiation or other heat sources. This could lead to overheating and malfunction of the unit.



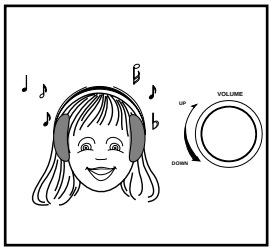
Do not place potted plants or vases on top of the unit. Moisture entering the unit could lead to dangerous electric shock and can cause equipment damage. In such events immediately disconnect the main plug from the socket.



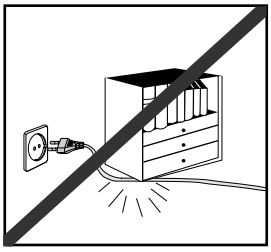
During thunderstorms, disconnect the main plug from the socket. Main voltage peaks due to lightning could damage the unit.



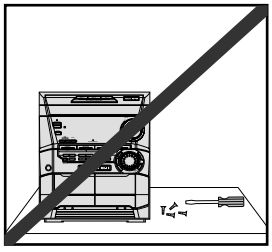
Remove the batteries from the remote control, if not used for any extended period.
Leaking batteries can cause serious damage to the remote control.



When using headphones, take care not to listen at excessive volumes. Extended use of headphones at high volumes will lead to hearing damage.



Do not place heavy items on the main lead. Main cable damage can lead to damage of the equipment (fire hazard) and can cause electric shock.



Do not remove any equipment panels. The inside of the unit contains live components, which cause electric shock.

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Cleaning Your Mini-Compact System

To obtain the best possible results from your mini-compact system, you must clean the following elements regularly:

- The outer casing
- The compact disc player
- The cassette players (heads, rollers and drive capstans)

☛ Always unplug the system from the wall outlet:
- Before cleaning it
- If you are not going to be using it for a long time

Outer Casing

Clean the outer casing regularly using a soft cloth and a light detergent. Do not use abrasive powders, liquids or aerosol cleaners. Never let any liquids get into the system.

Compact Disc Player

1 Before playing a compact disc, clean it with a special CD cleaning agent. Do not use the same cleaning agents as for vinyl LP records. Carefully wipe the disc from the centre outward.

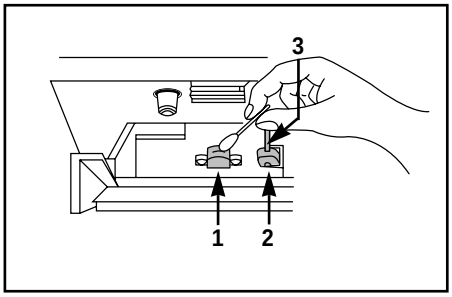
2 Regularly clean the player with a special cleaning disc (available from your local dealer).

Tape Decks

1 Press STOP/EJECT(■/⏏) to open the cassette deck.

2 Use a cotton bud and a special cassette cleaning agent to clean the:
- Head (1)
- Rollers (2)
- Drive capstans (3)

☛
- If you will not be using the remote control for a long time, remove the batteries to prevent corrosion.
- Although your system is very hard-wearing, it should not be used in an excessively dusty environment or subjected to shocks or extreme heat (close to heating appliances or in direct sunlight, etc.).
- If the unit emits an unpleasant odor when in use, unplug it from the main supply and contact the after-sales service.



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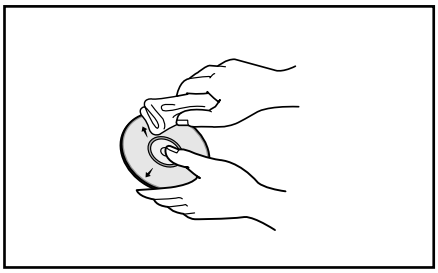
Precautions When Using Compact Discs

- Handle your compact discs with care. Always hold them by the edges to avoid leaving fingerprints on the shiny surface.
- When you have finished playing a compact disc, always put it back in its case.
- Do not fix paper or adhesive tape to the discs and do not write on the label.
- Clean them with a special-purpose cloth.
- Store your compact discs in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- Always use compact discs marked .

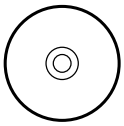
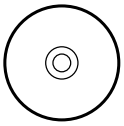
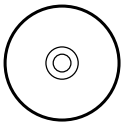


Precautions When Using Audio Cassettes

- Check that the tape in the cassette is sufficiently taught.
- To prevent erasing a cassette that you wish to keep, remove the safety tab on the upper edge of the cassette. To record a cassette, where the tab has been broken, simply cover the opening with adhesive tape.
- When you have finished playing a cassette, always put it back in its case.
- Store your cassettes in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- Avoid using 120-minute cassettes as they place unnecessary strain on the tape mechanism.

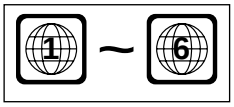
Disc type and characteristics

This DVD player is capable of playing the following types of discs, having the corresponding logos:

Disc Types	Logos	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD 		Audio + Video	12 cm	Single-sided 2 layers 240 min. Double-sided 2 layers 480 min.	• DVD contains excellent sound and video due to Dolby Digital and MPEG2 system.
			8 cm	Single-sided 2 layers 80 min. Double-sided 2 layers 160 min.	• Various screen and audio functions can be easily selected through the on-screen menu.
VIDEO - CD 		Audio + Video	12 cm	74 min.	• Video with CD sound, VHS quality & MPEG1 compression technology.
			8 cm	20 min.	
AUDIO - CD 		Audio	12 cm	74 min.	• An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
			8 cm	20 min.	

* DO NOT play CD-ROM, CD-I, CD-R and DVD-ROM in this player! (CDGs play audio only, not graphics.)

Disc Markings



• Playback Region Number

• NTSC broadcast system in U.S.A, Canada, Korea, Japan, etc.

• Dolby Digital disc

• Digital Audio disc

• Stereo disc

• DTS disc

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Playback Region Number

- Both the MAX-DN55 player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
- The Region Number for this player is described on the rear panel of the player.

Before Contacting the After-Sales Service

It always takes a little time to become familiar with a new appliance. If you have any of the problems listed below, try the solutions given. They may save you the time and inconvenience of an unnecessary service call.

	PROBLEM	CHECKS/EXPLANATION
GENERAL	The system does not work	• *The main lead is not correctly plugged into a wall socket or the wall socket is not switched on.* • *The remote control batteries need replacing or the polarity has not been respected.* • *The **On/Standby** button has not been pressed.*
	There is no sound	• *The volume has been completely turned down.* • *The correct function (TUNER, CD, TAPE, AUX) has not been selected.* • *You have connected a set of earphones.* • *The loudspeaker wires have been disconnected.* • *The **Mute** button has been pressed.*
	The Timer does not work	• *The timer has been stopped by pressing Timer On/Off.*
	System still doesn't work, even after following steps above.	• *Press the **S. Bass** button for 5 seconds in power 'OFF'(standby), the system is returned the original position (RESET)*
CD/DVD	The compact disc player does not start playing	• *The CD function has not been selected.* • *The disc has been inserted face down or is either dirty or scratched.* • *The laser sensor is dirty or dusty.* • *The system has not been installed on a flat, horizontal surface.* • *Condensation has formed in the player; leave the system in a warm, airy room for at least one hour.* • *This player cannot play CD-ROMs, DVD-ROMs, CD-R, etc. Insert a DVD, a VIDEO-CD or a CD.*
	The ⊘ icon appears on screen.	• *The features or action cannot be completed at this time because:* *1. The DVD's software restricts it.* *2. The DVD's software doesn't support the feature (e.g., angles).* *3. The feature is not available at the moment.* *4. You've requested a title or chapter number or search time that is out of range.*
	Disc Menu doesn't appear.	• *Check if the disc has a Menu.*
	Playback mode differs from the Setup Menu selection	• *Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.*
	The screen ratio cannot be changed.	• *The Screen Ratio is fixed on your DVDs.*
CASSETTES	The tape does not start playing	• *The TAPE function has not been selected.* • *The cassette has not been inserted correctly.* • *The cassette player has not been closed.* • *The tape is either slack or broken.*
	The volume falls off The cassette is not erased correctly There is excessive wow and flutter	• *The audio heads are dirty.* • *The rollers or drive capstans are dirty.* • *The tape is worn.*
RADIO	Reception is poor or no radio stations are received at all	• *The TUNER function has not been selected.* • *The radio frequency has not been correctly selected.* • *The aerial has been disconnected or is not facing the right way. Turn it until you find the best orientation.* • *You are in a building that blocks radio waves; you must use an outside aerial.*

If the above guidelines do not allow you to solve the problem, take a note of:
- The model and serial numbers, normally printed on the rear of the system
- Your warranty details
- A clear description of the problem

Then contact your local dealer or SAMSUNG after-sales service.

Technical Specifications

SAMSUNG strives to improve its products at all times. Both the design specifications and these user instructions are thus subject to change without notice.

RADIO	
LW(OPTION)	
Usable sensitivity	60 dB
SW(OPTION)	
Usable sensitivity	40 dB
AM (MW)	
Signal/noise ratio	40 dB
Usable sensitivity	54 dB
Total harmonic distortion	2 %
FM	
Signal/noise ratio	60 dB
Usable sensitivity	10 dB
Total harmonic distortion	0.3 %
COMPACT DISC PLAYER	
Capacity	3 discs
Frequency range	20 Hz - 20 KHz (± 1 dB)
Signal/noise ratio	90 dB (at 1 KHz) with filter
Distortion	0.05 % (at 1 KHz)
Channel separation	74 dB
Disc sizes	Diameter: 120 or 80 mm. Thickness: 1.2 mm
TAPE DECK	
Frequency range	125 Hz ~ 12 KHz
Signal/noise ratio	40 dB
Channel separation	35 dB
Erasing effect	60 dB
AMPLIFIER	
Output power	
FRONT (6Ω)	2 x 60 Watts RMS (total harmonic distortion: 10 %)
CENTER (6Ω)	30 Watts RMS (total harmonic distortion: 10 %)
SURROUND (6Ω)	2 x 30 Watts RMS (total harmonic distortion: 10 %)
Channel separation	50 dB
Signal/noise ratio	75 dB
GENERAL	
Dimensions	270 (W) x 317 (H) x 340 (D) mm

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THIS APPLIANCE IS MANUFACTURED BY:

SAMSUNG ELECTRONICS

AH68-00527B